

FIG. 1

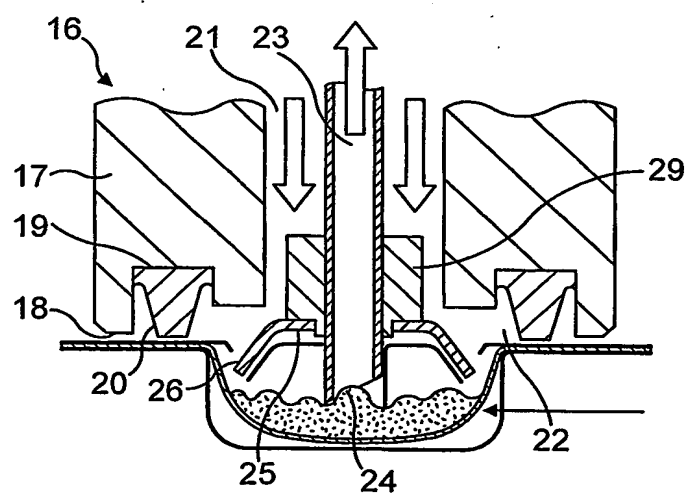


FIG. 2

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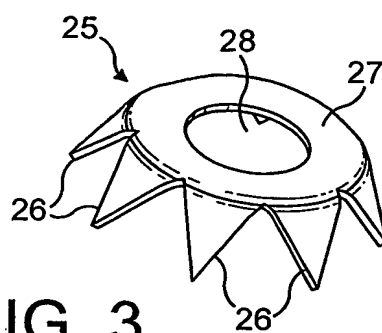


FIG. 3

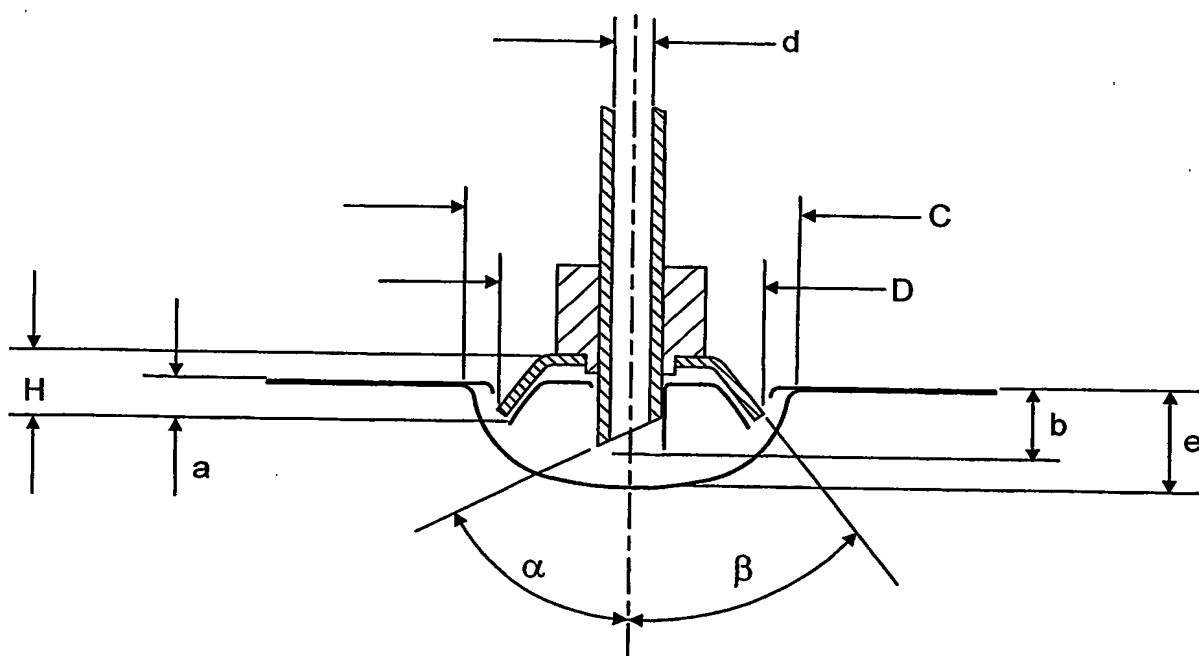


FIG. 4

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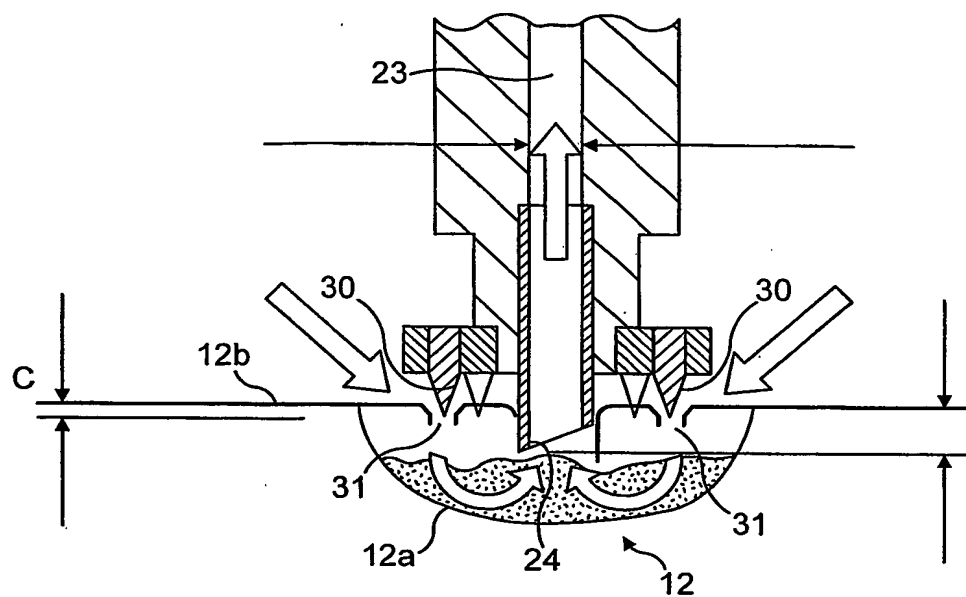


FIG. 5

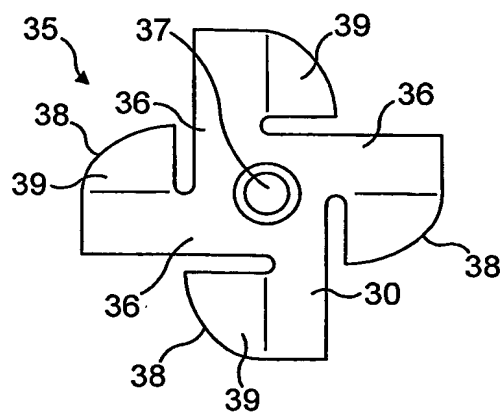


FIG. 6a

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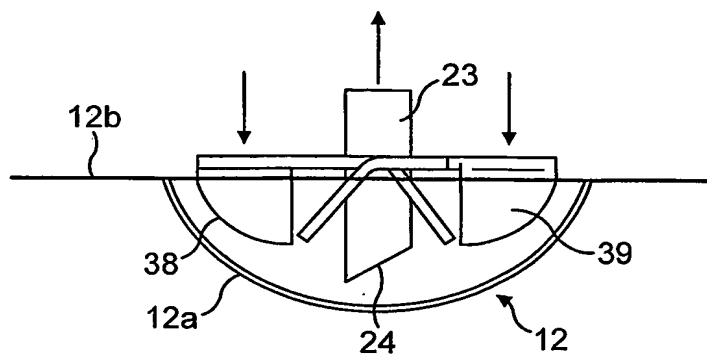


FIG. 6b

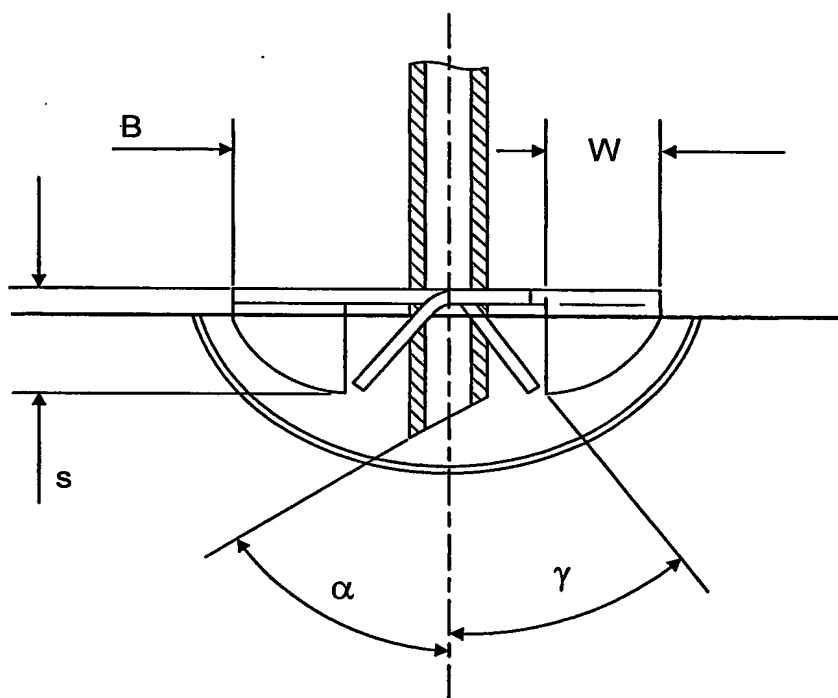


FIG. 6c

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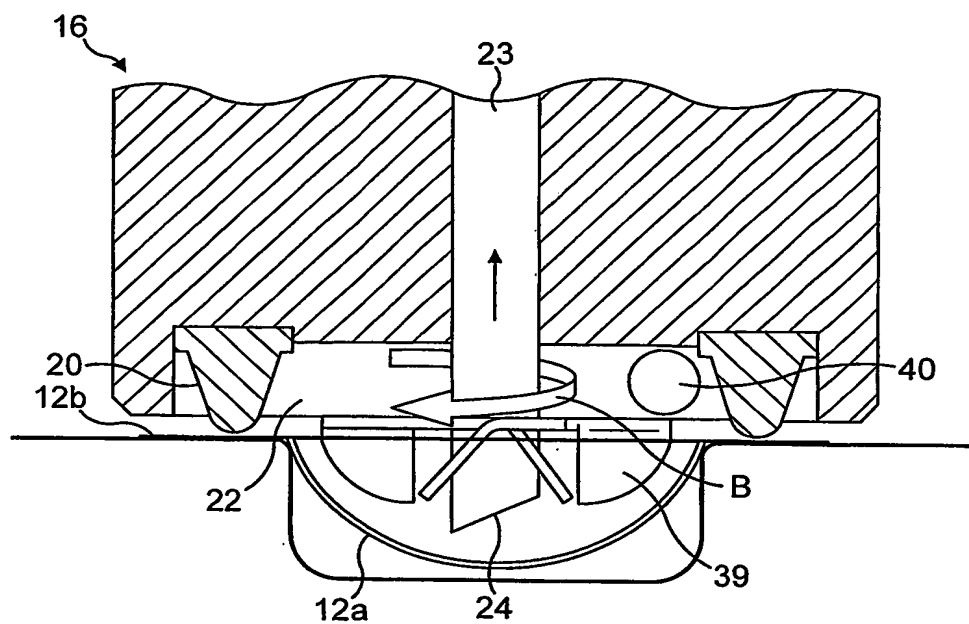


FIG. 7a

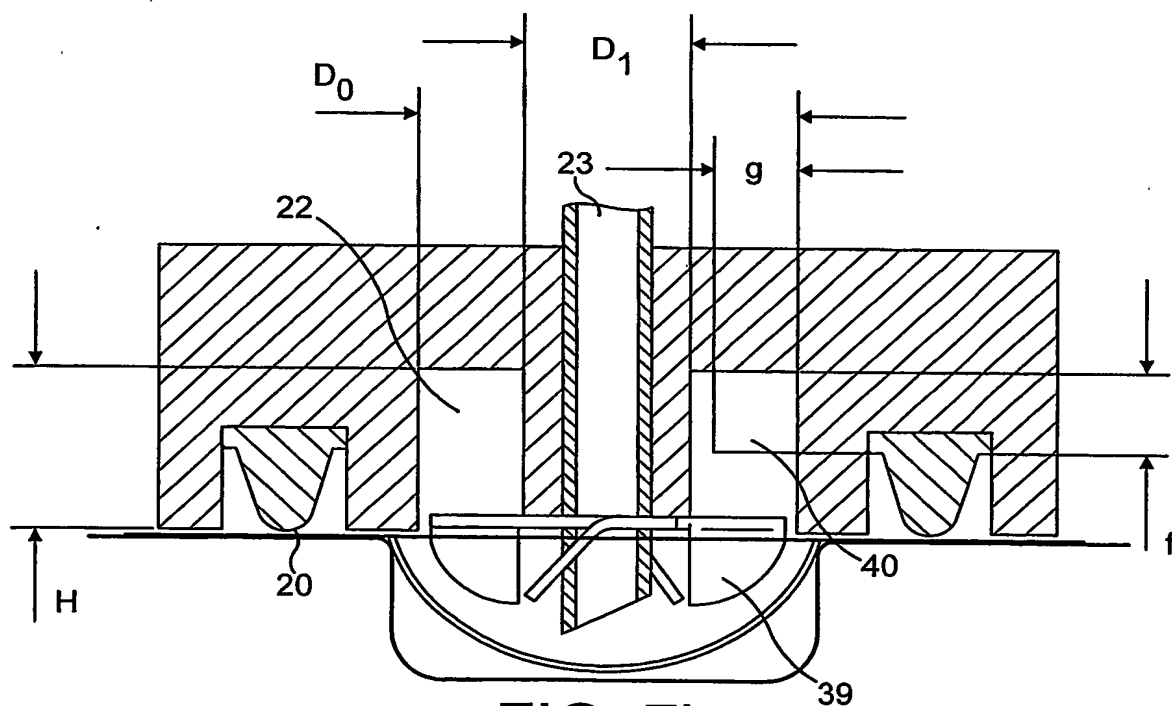


FIG. 7b

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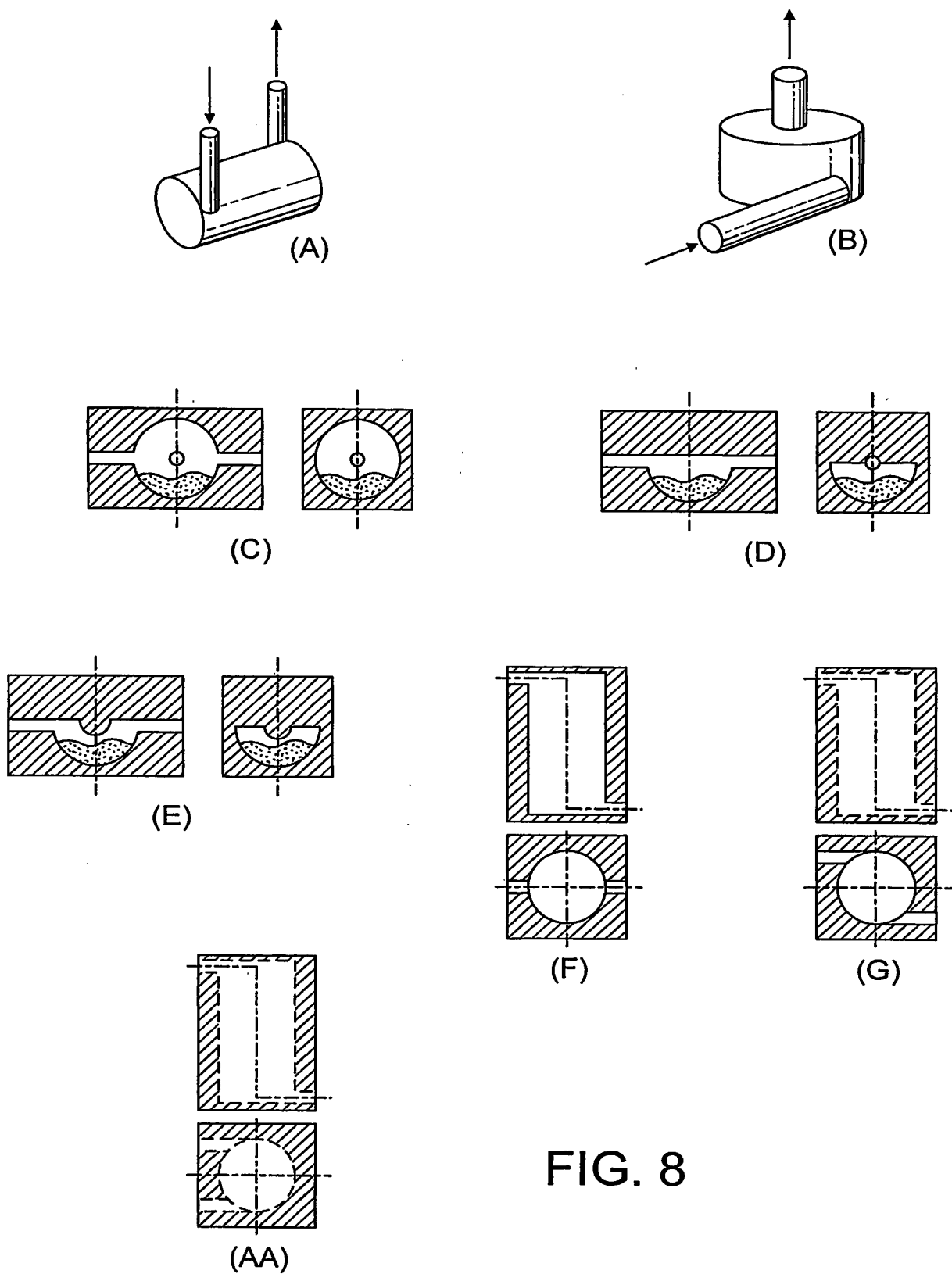


FIG. 8

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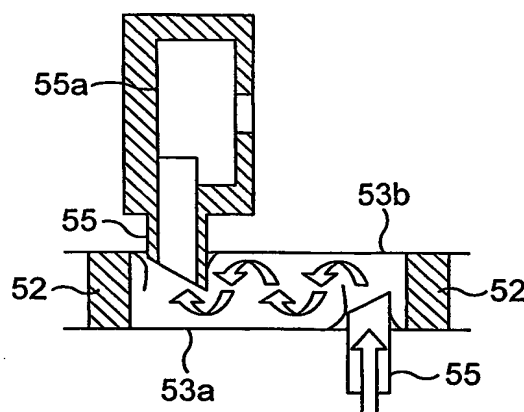


FIG. 9

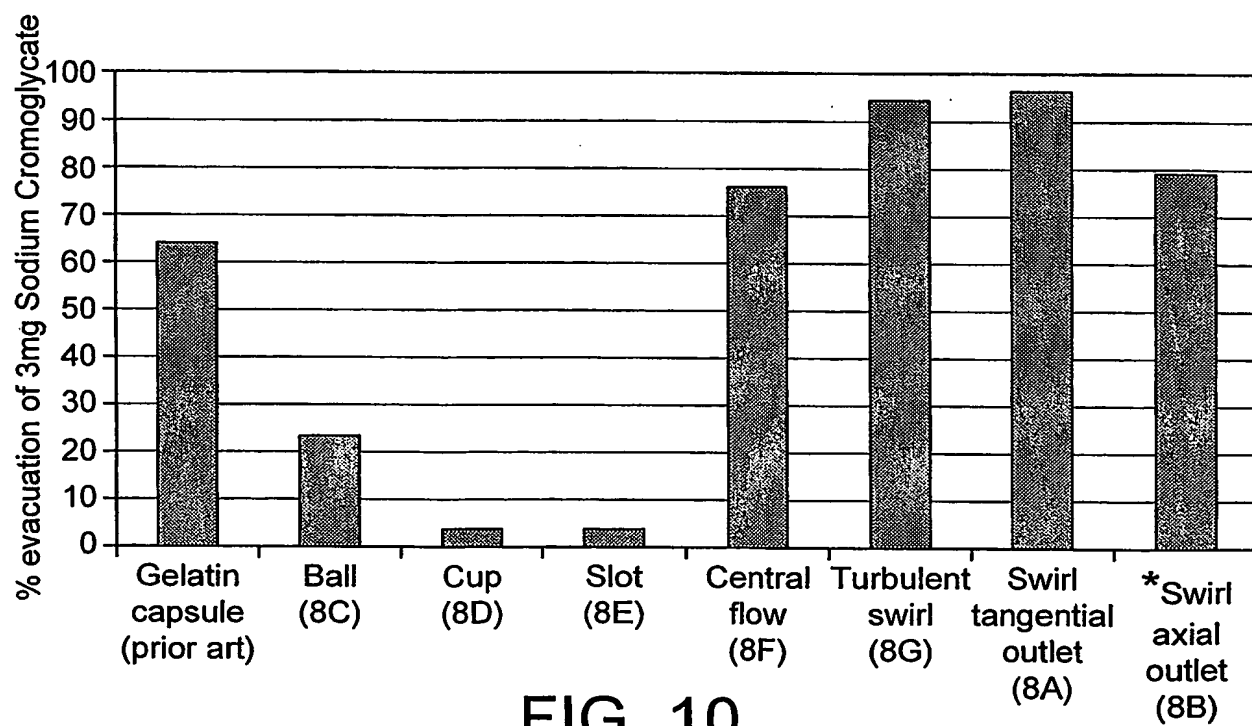


FIG. 10

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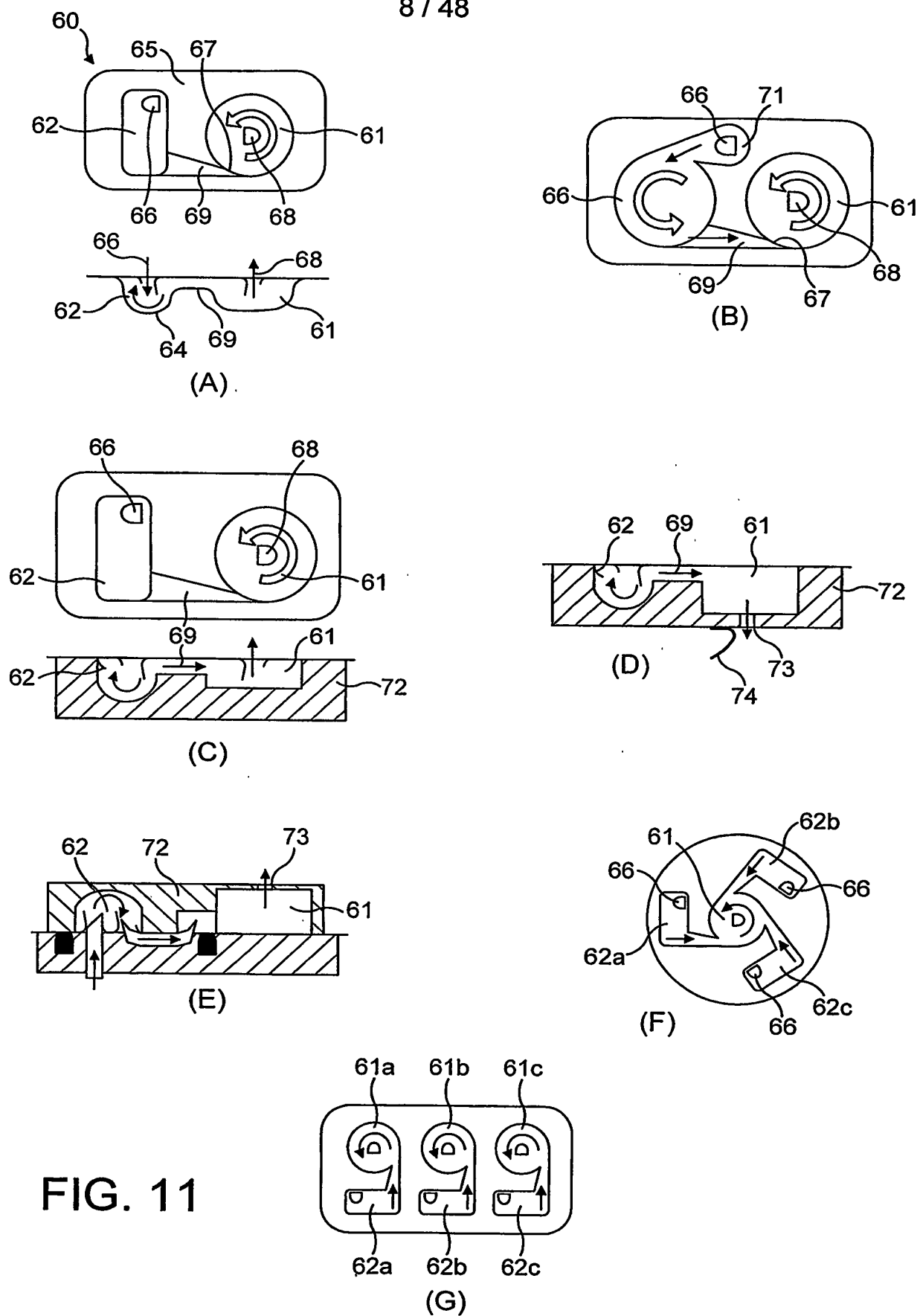


FIG. 11

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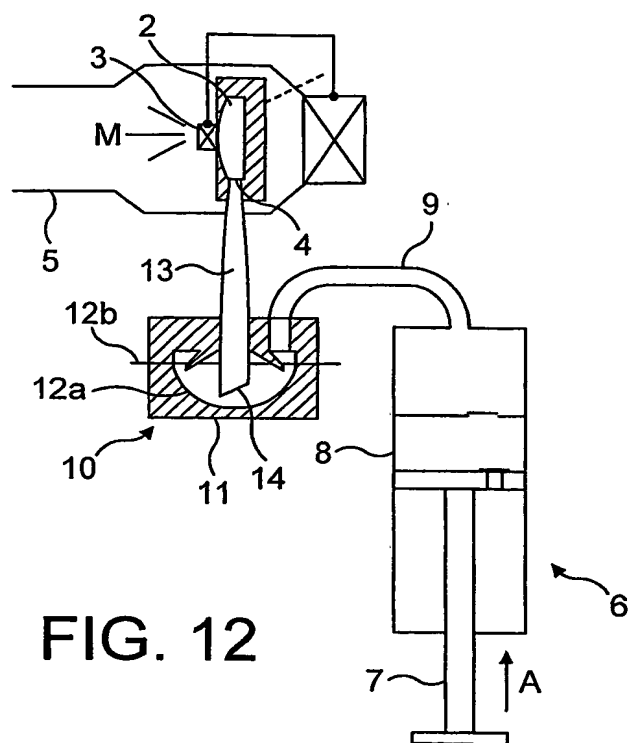


FIG. 12

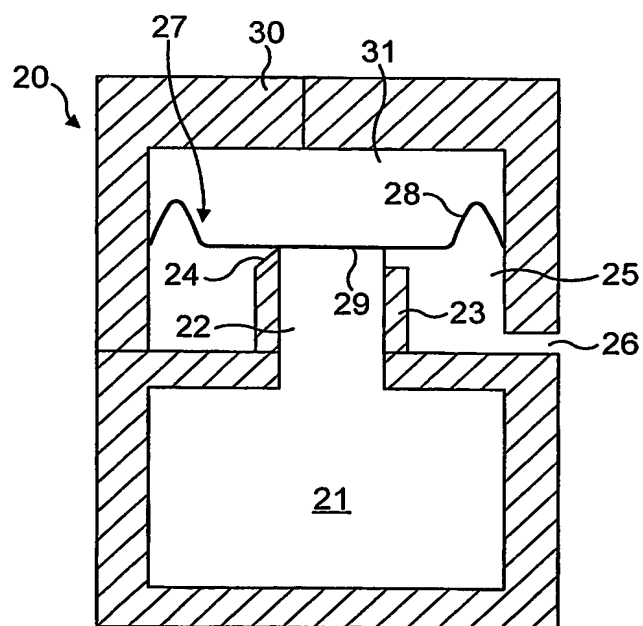


FIG. 13

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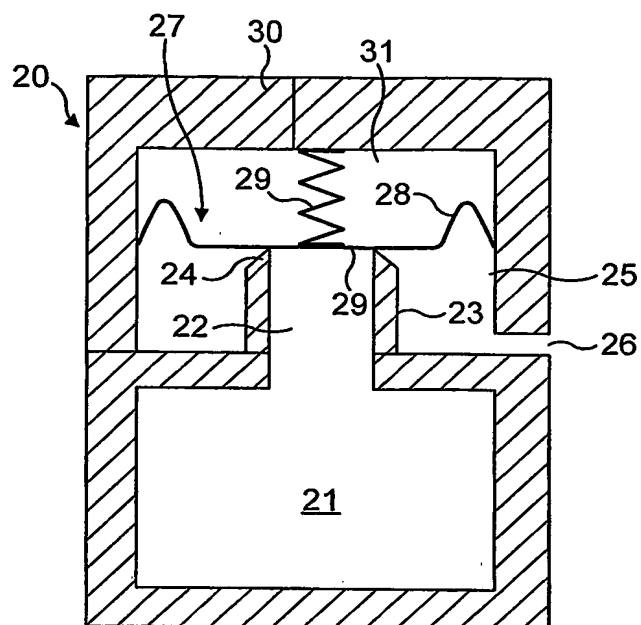


FIG. 14

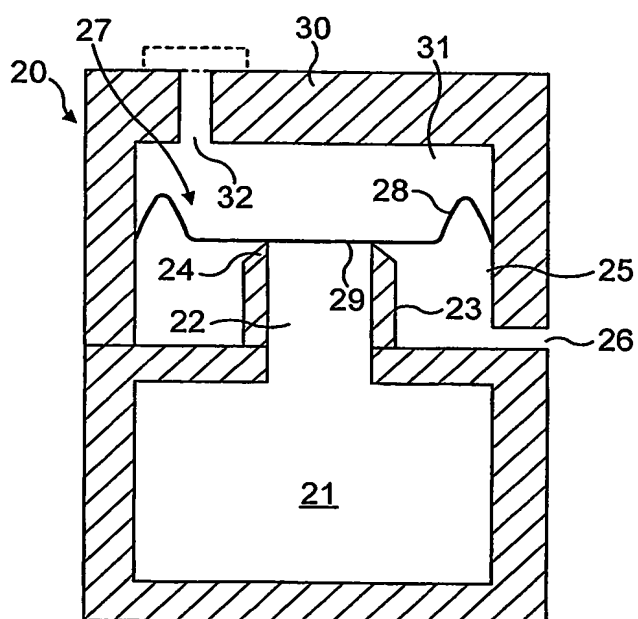


FIG. 15

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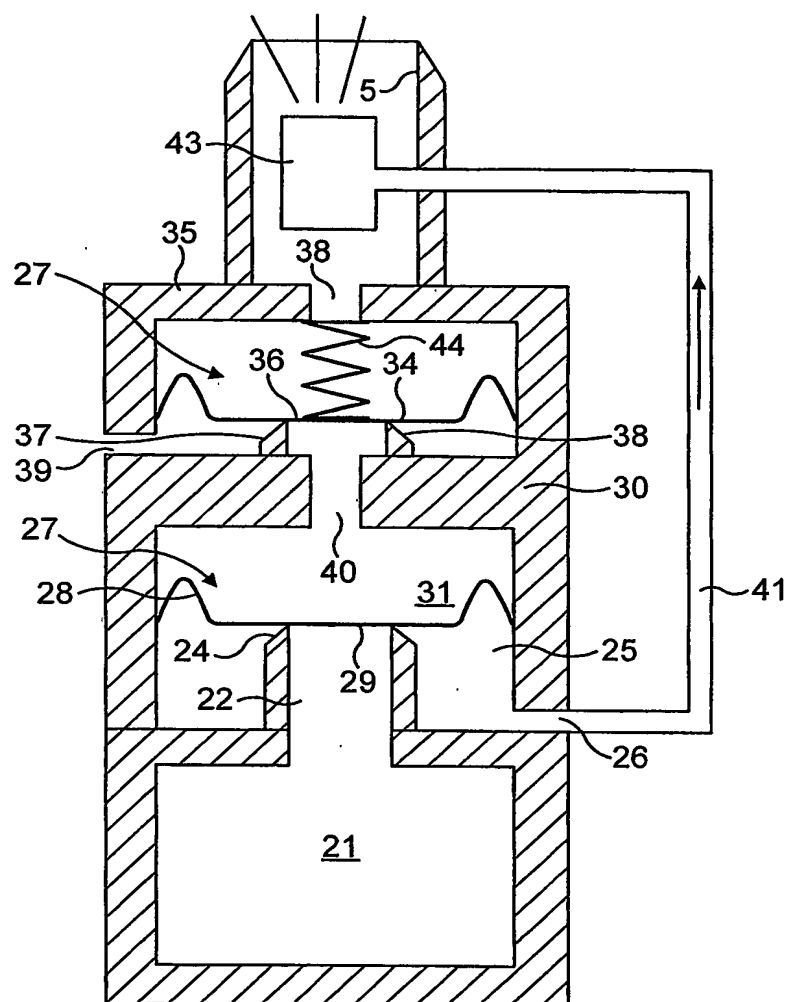


FIG. 16

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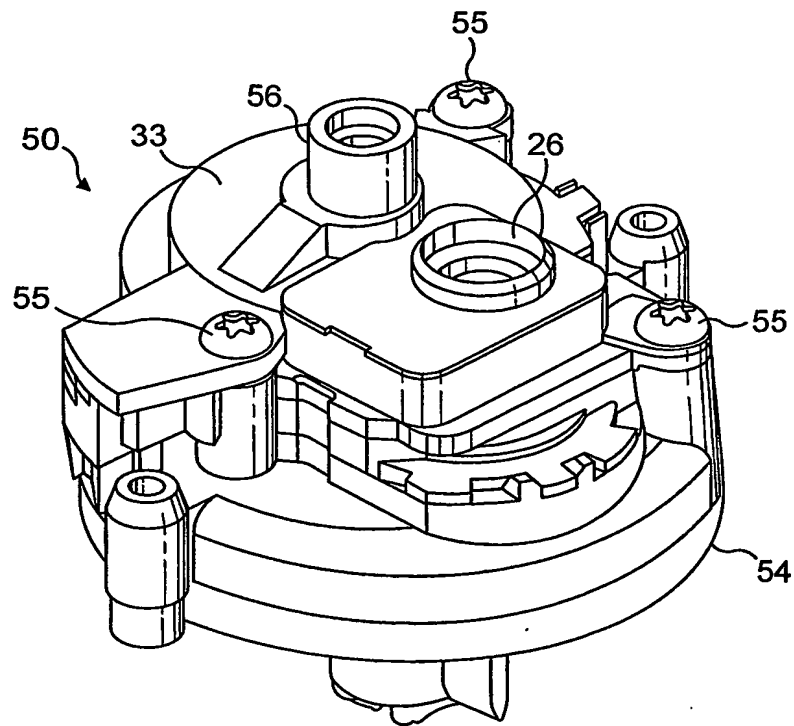


FIG. 17

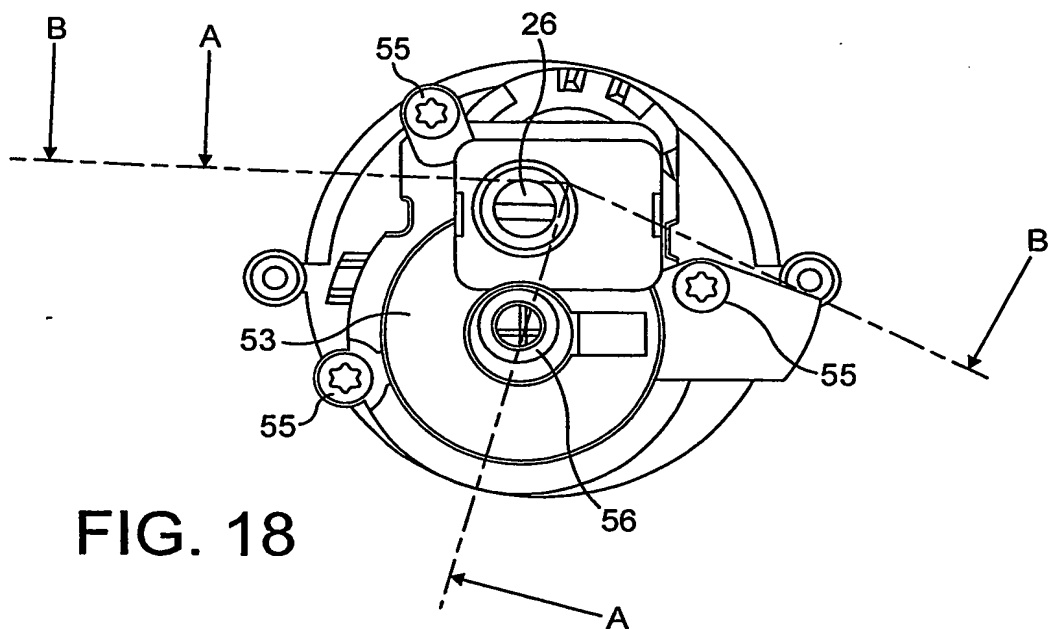


FIG. 18

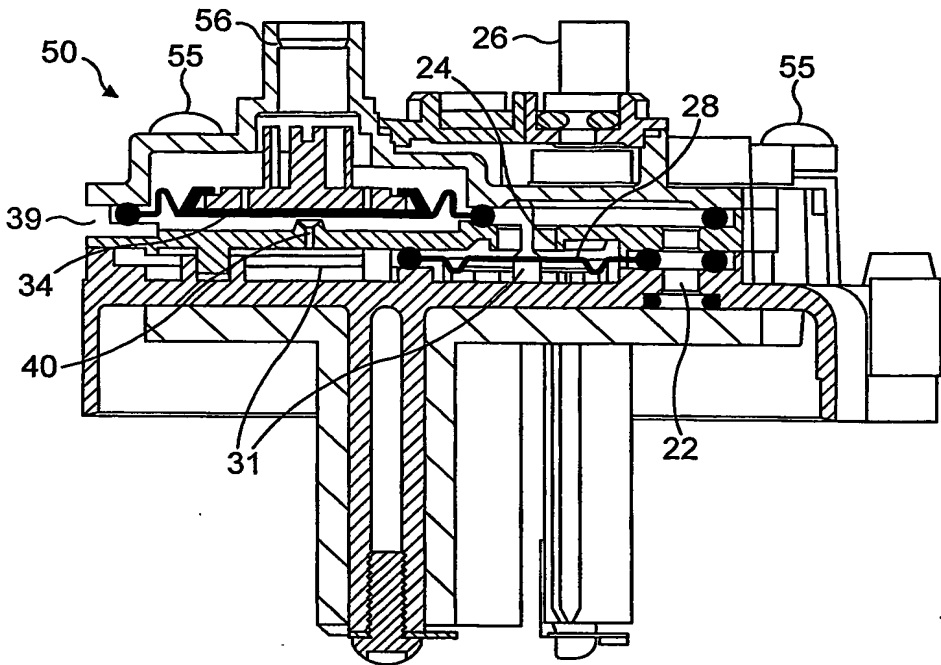


FIG. 19

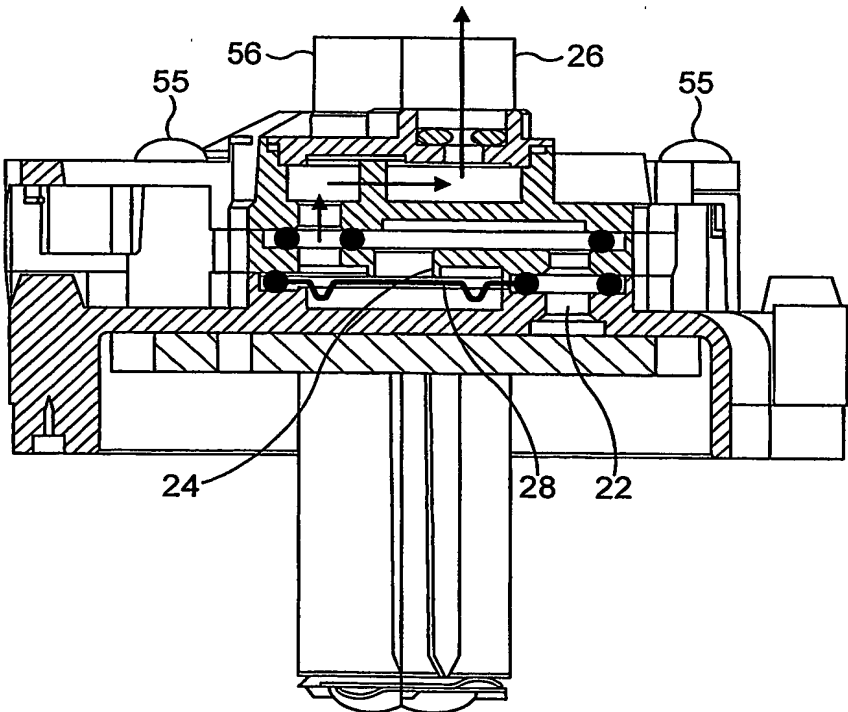


FIG. 20

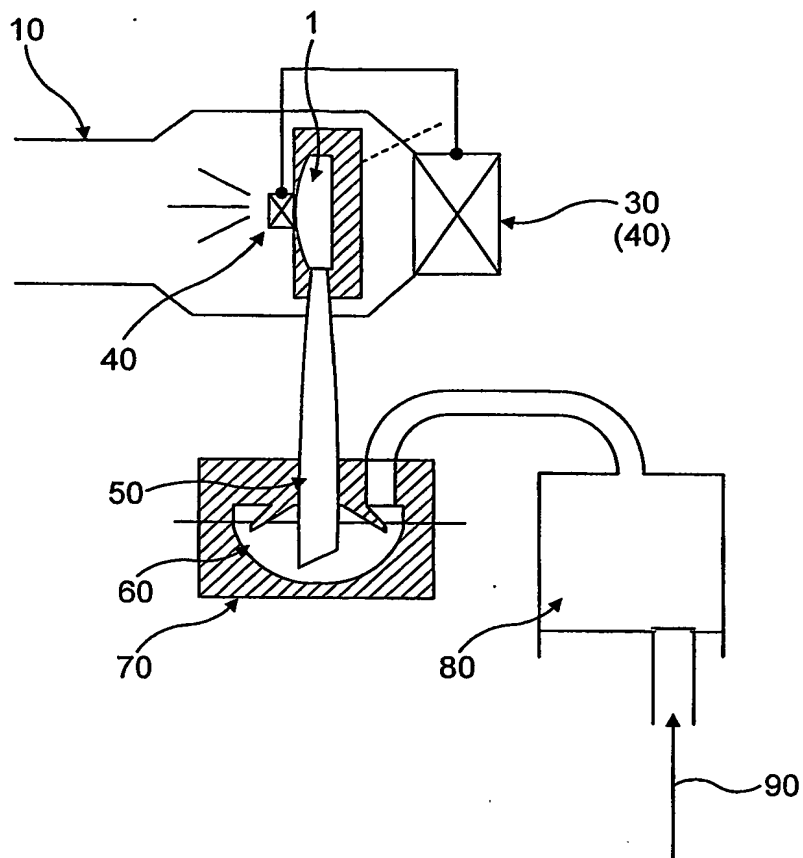


FIG. 21

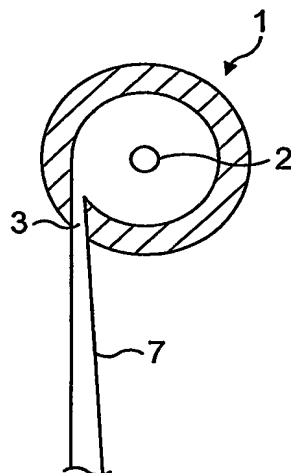
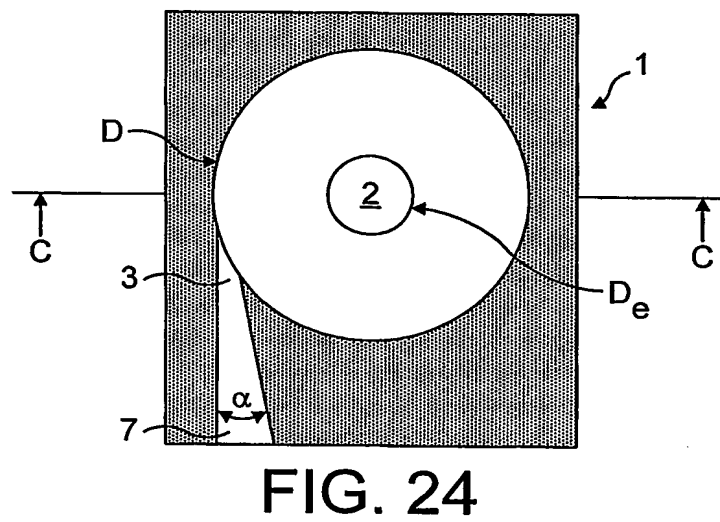
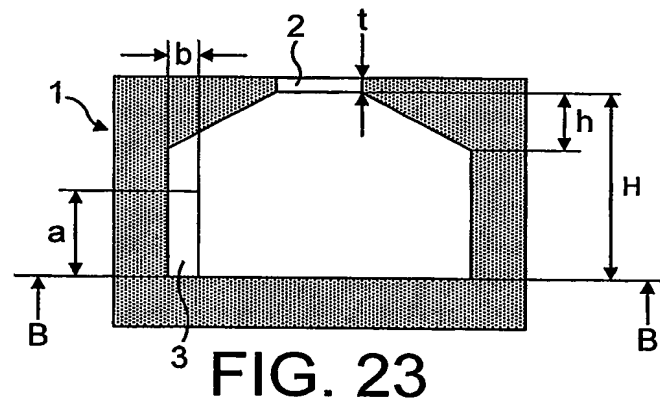
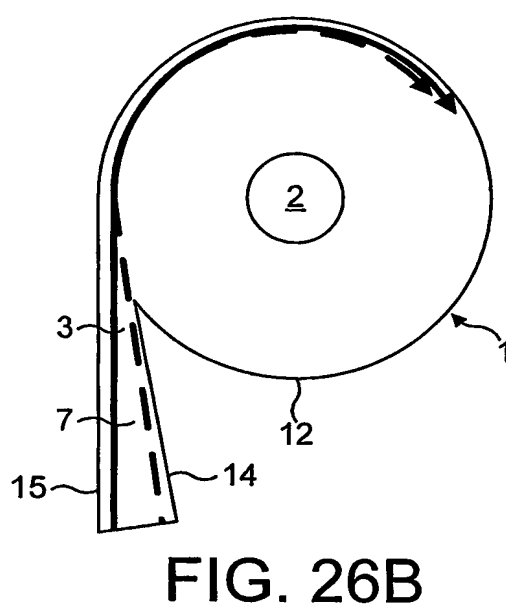
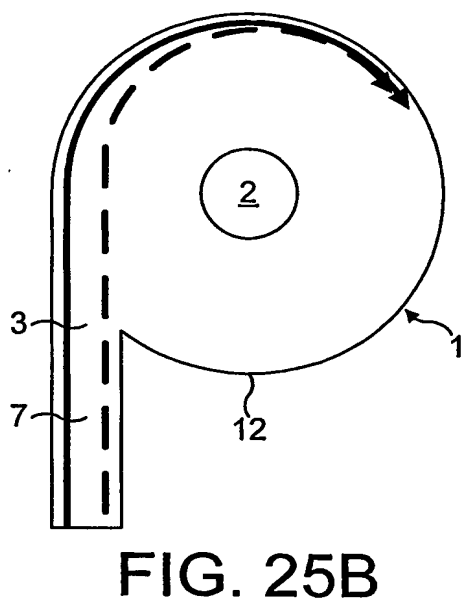
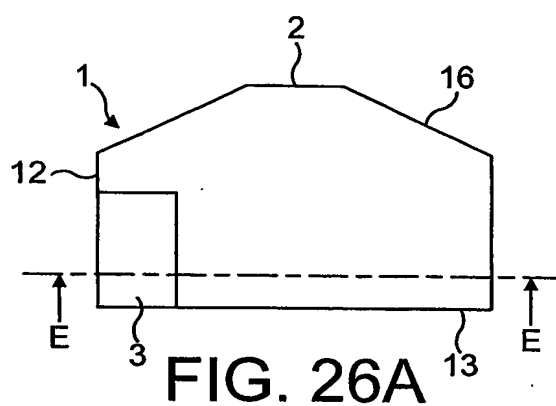
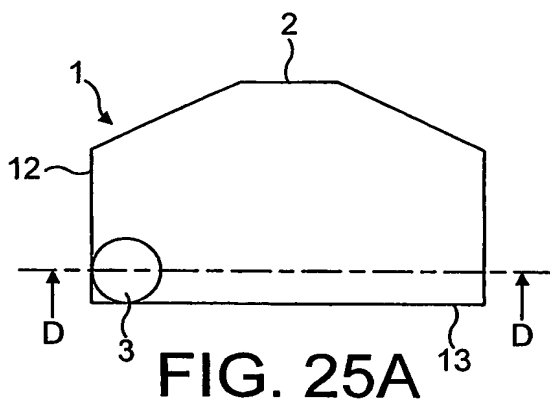
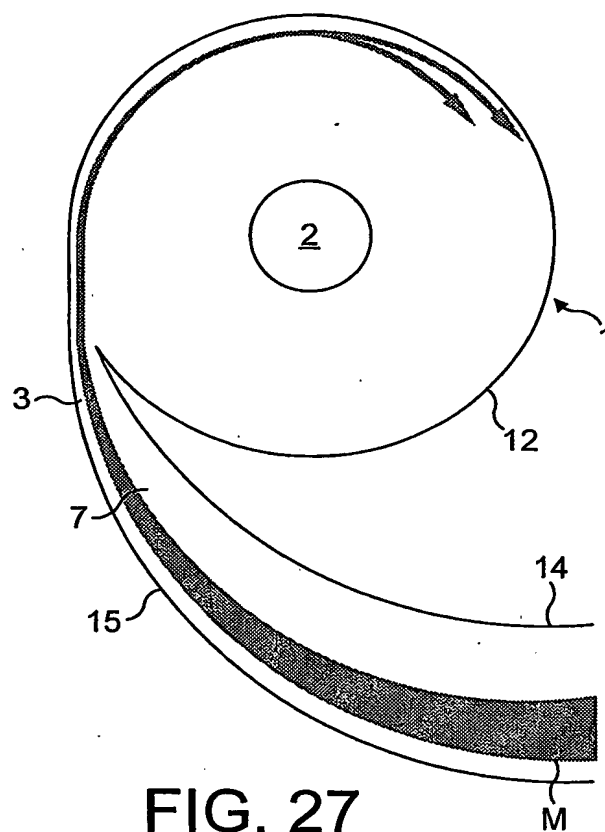


FIG. 22

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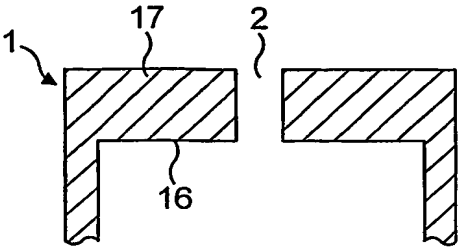


FIG. 28

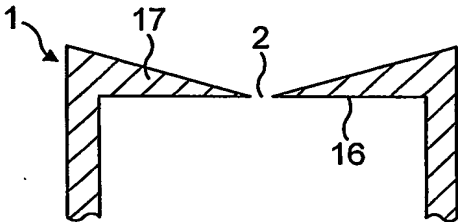


FIG. 29

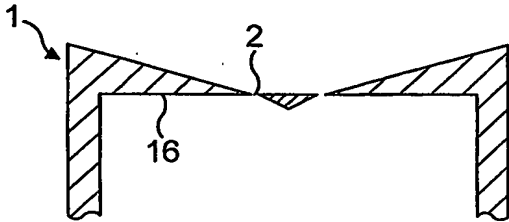


FIG. 30

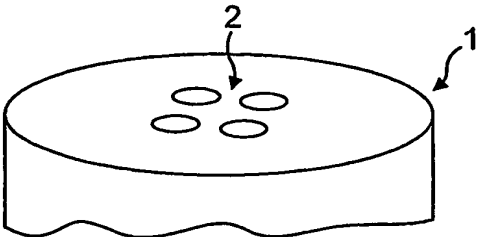


FIG. 31

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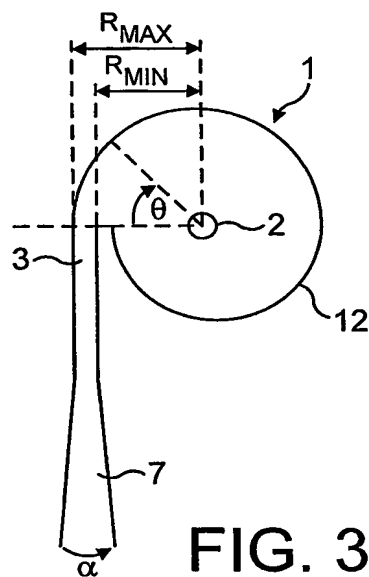


FIG. 32

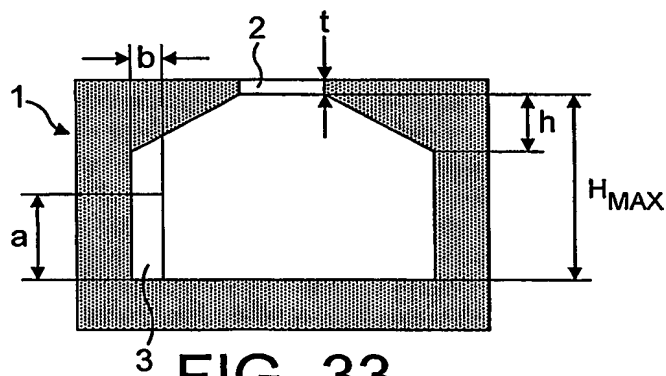


FIG. 33

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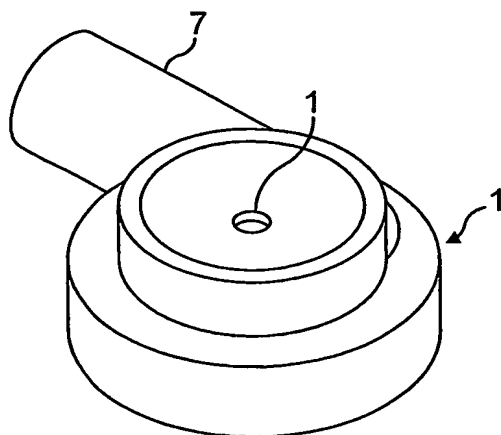


FIG. 34

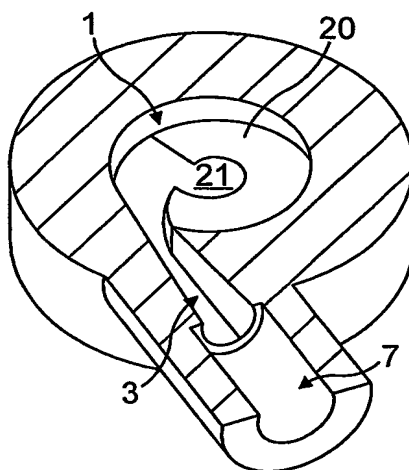


FIG. 35

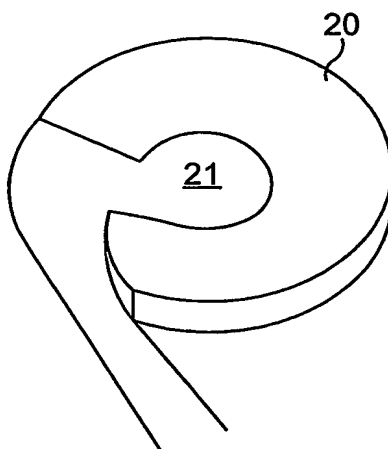


FIG. 36

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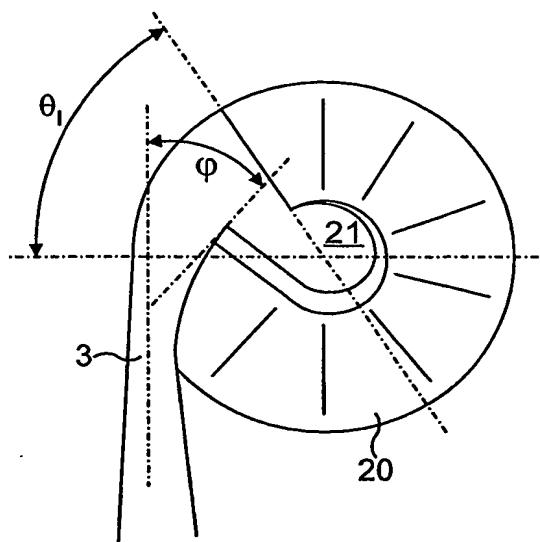


FIG. 37

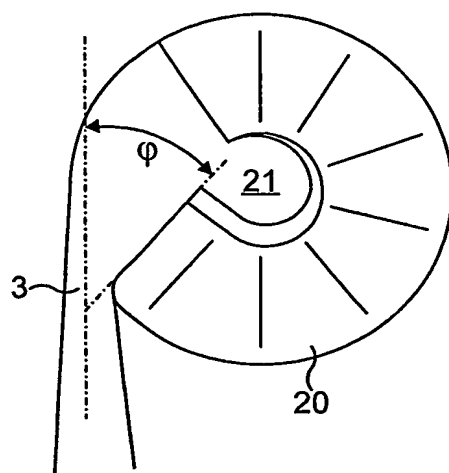


FIG. 38

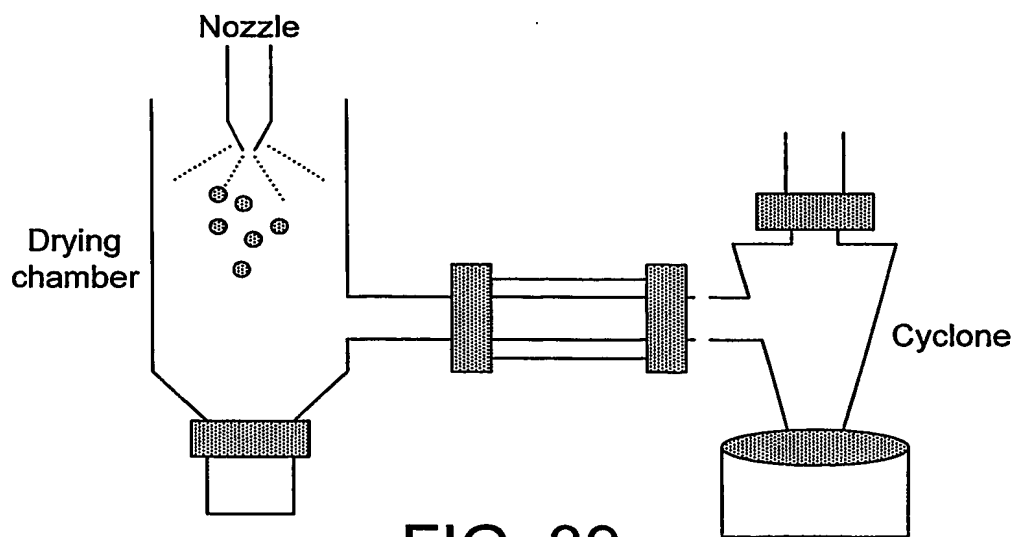


FIG. 39

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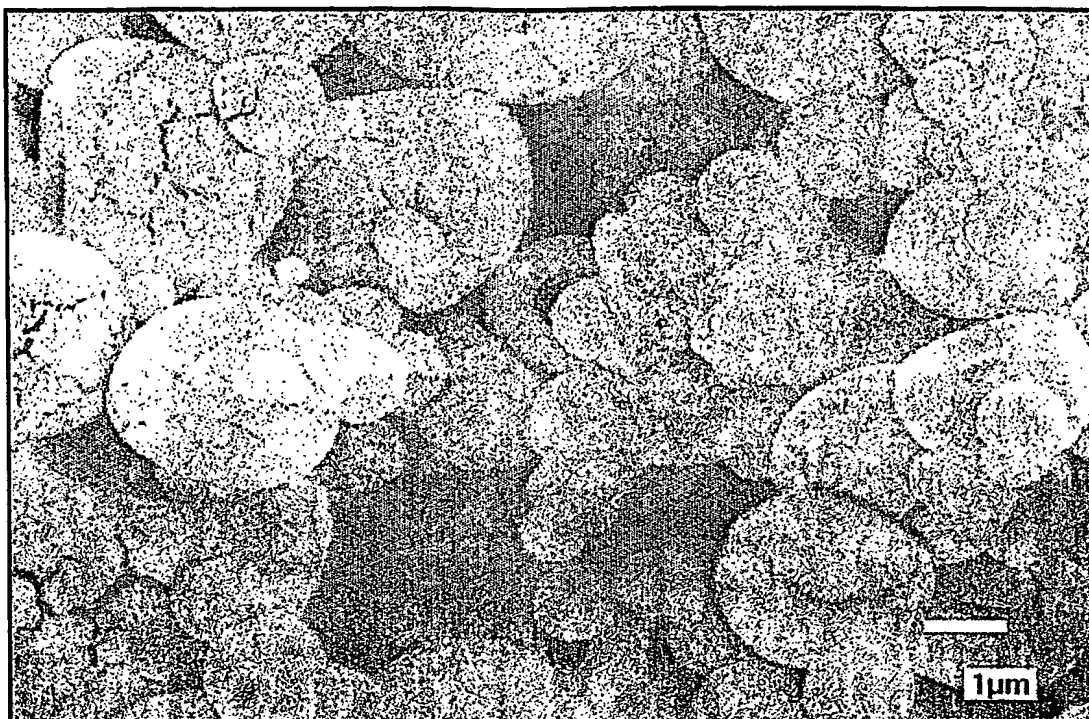


FIG. 40A



FIG. 40B

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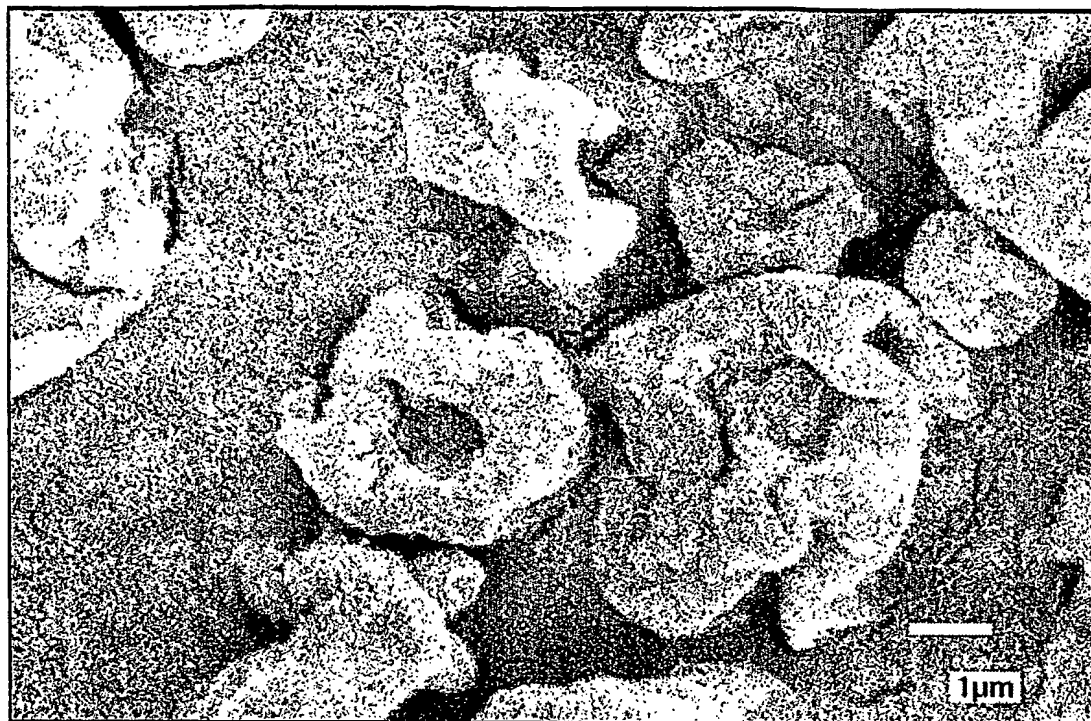


FIG. 40C



FIG. 40D

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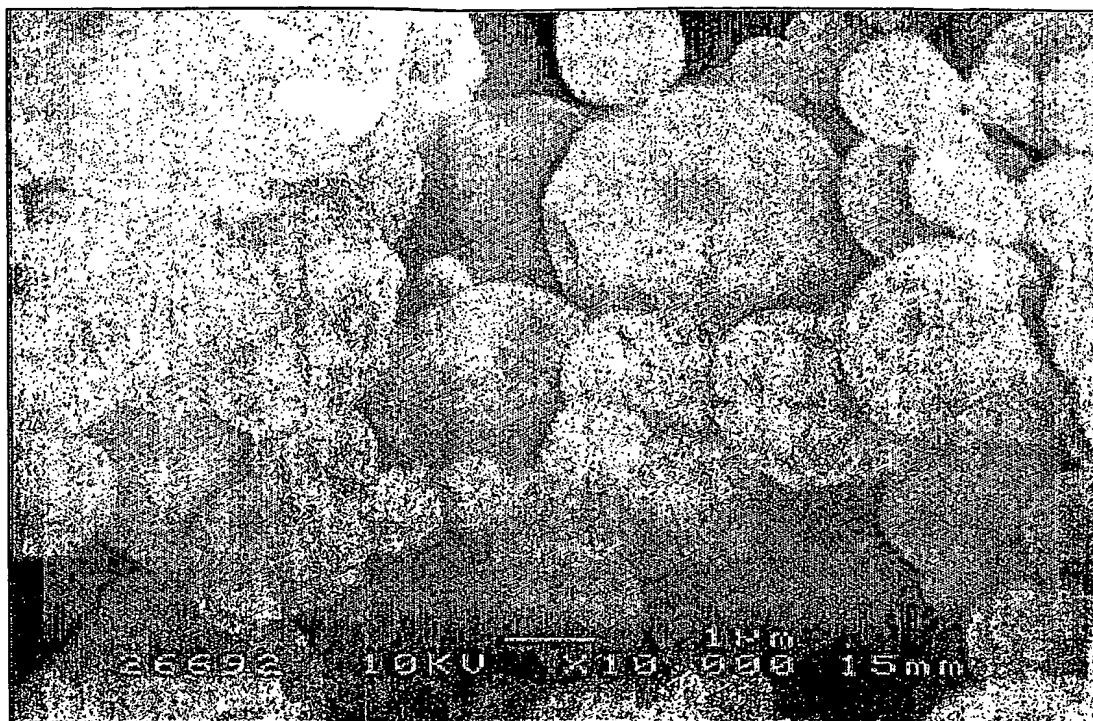


FIG. 40E

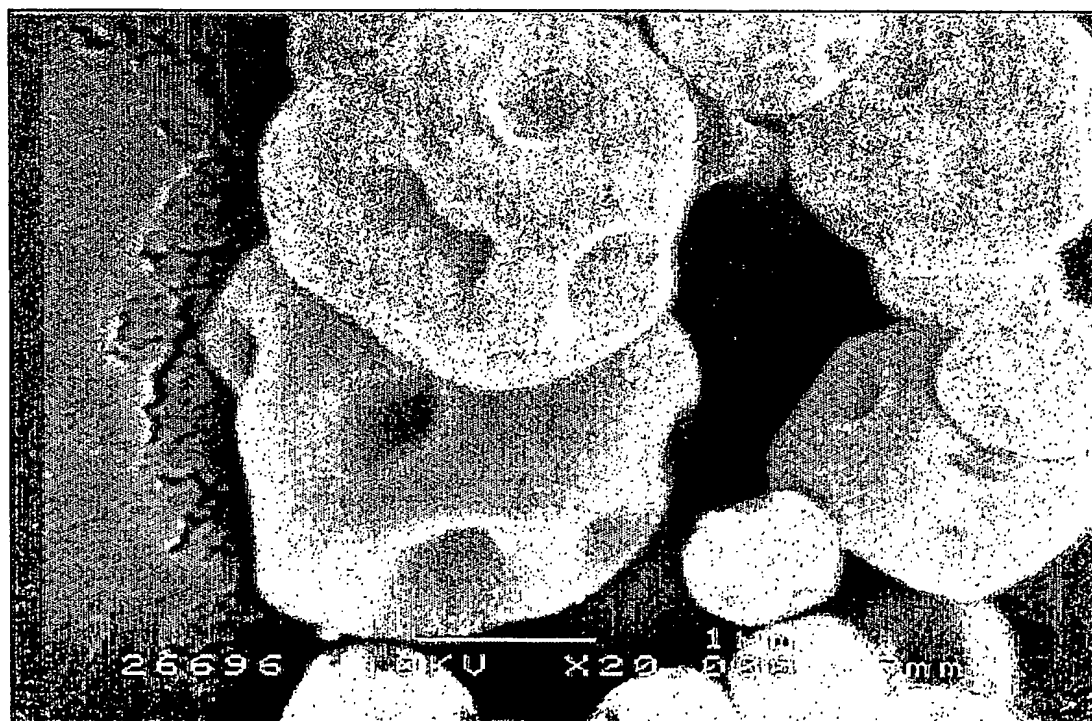


FIG. 40F

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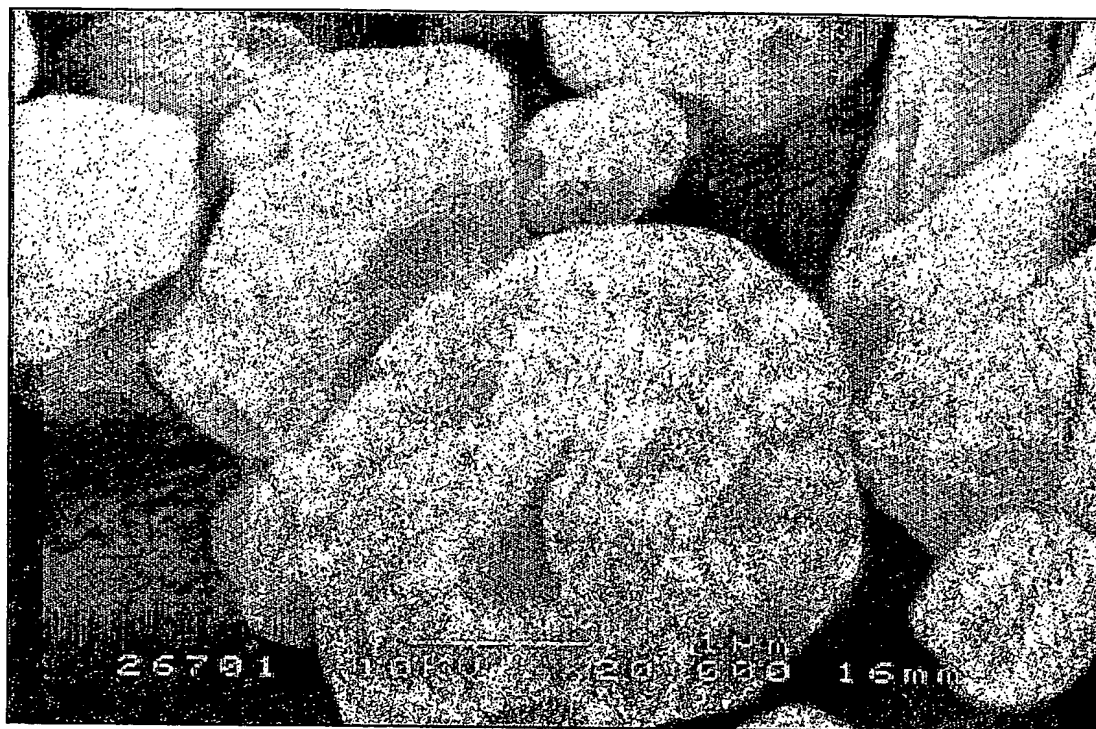


FIG. 40G

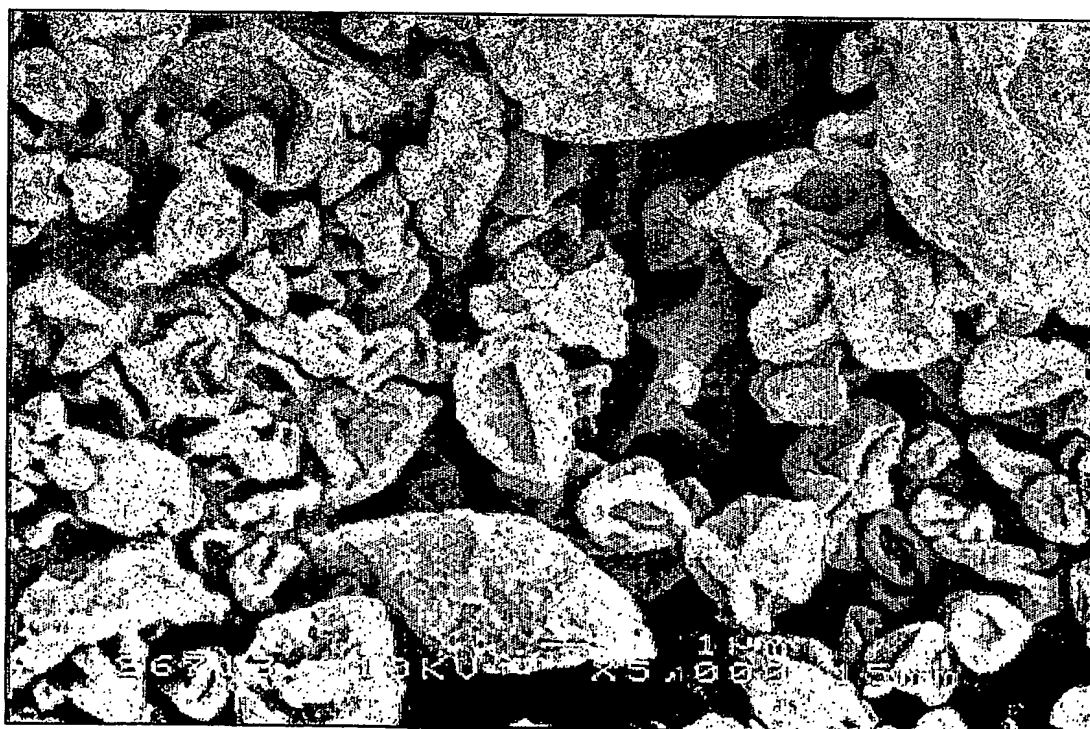


FIG. 40H

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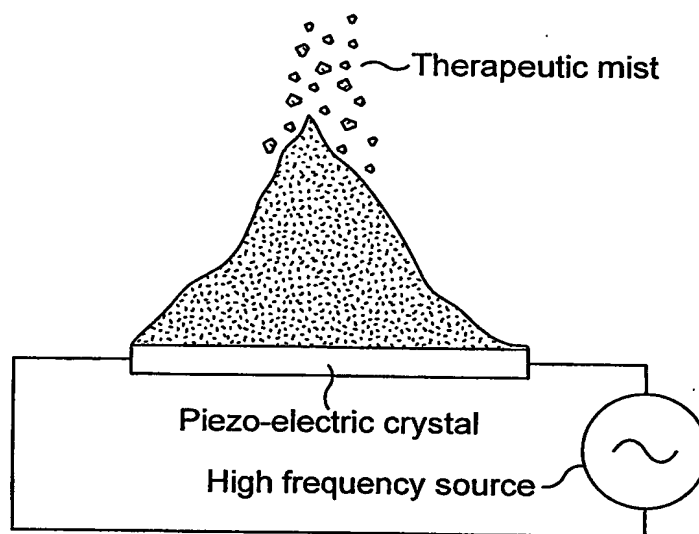


FIG. 41

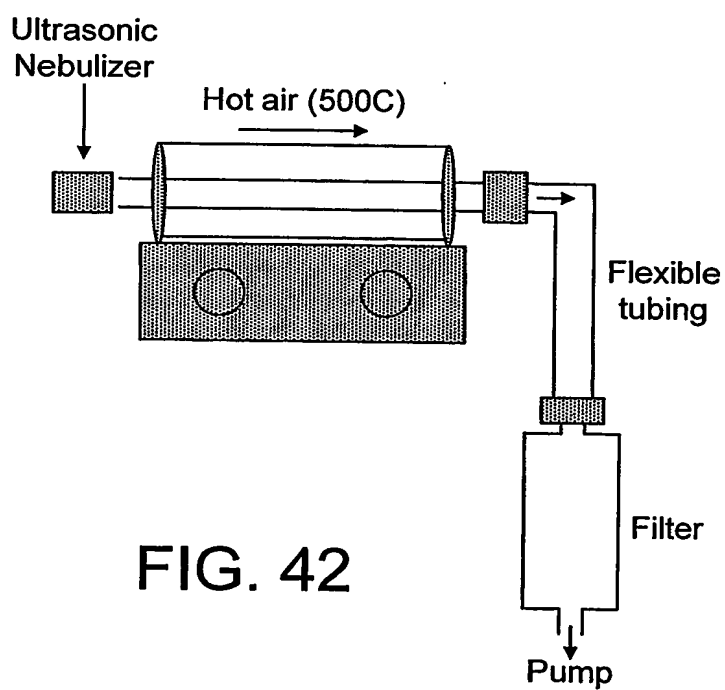


FIG. 42

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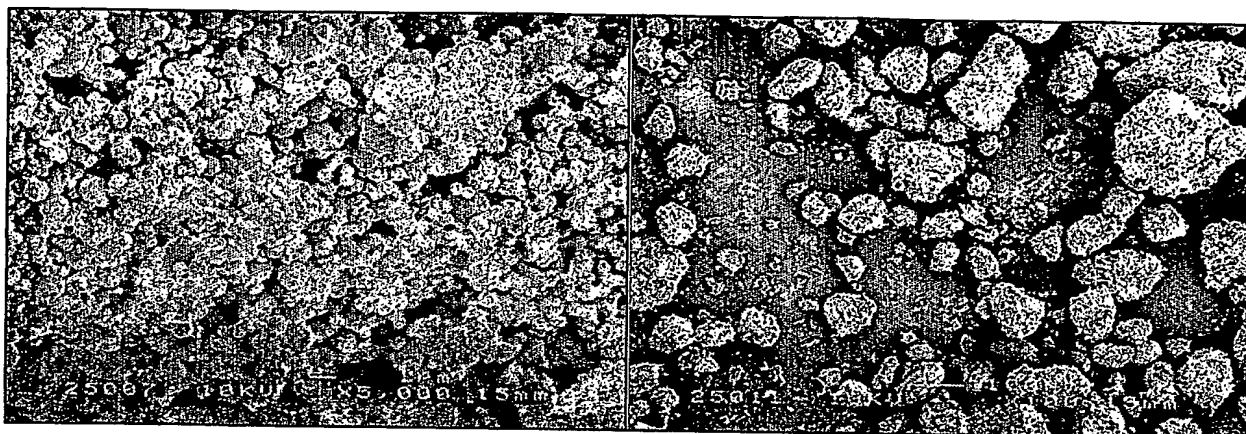


FIG. 43A

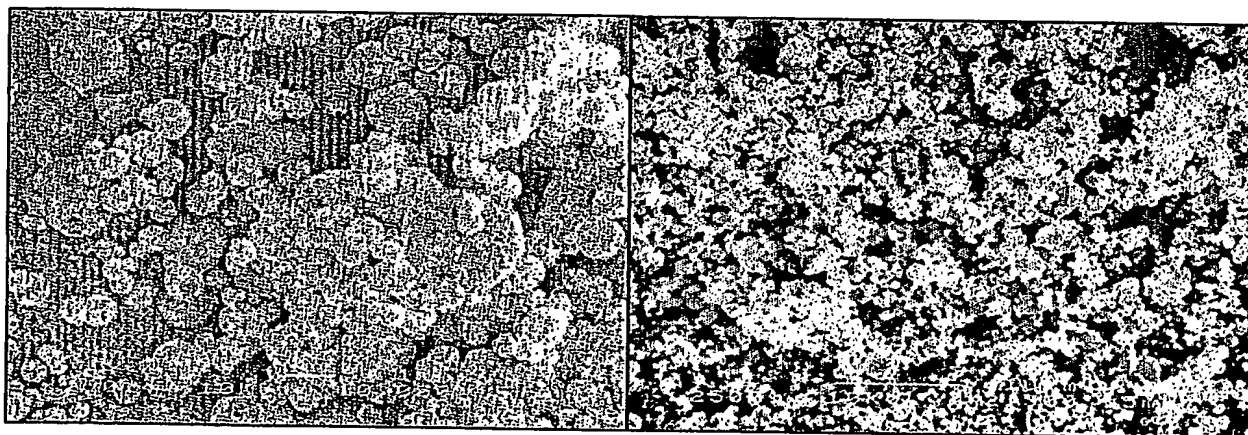


FIG. 43B

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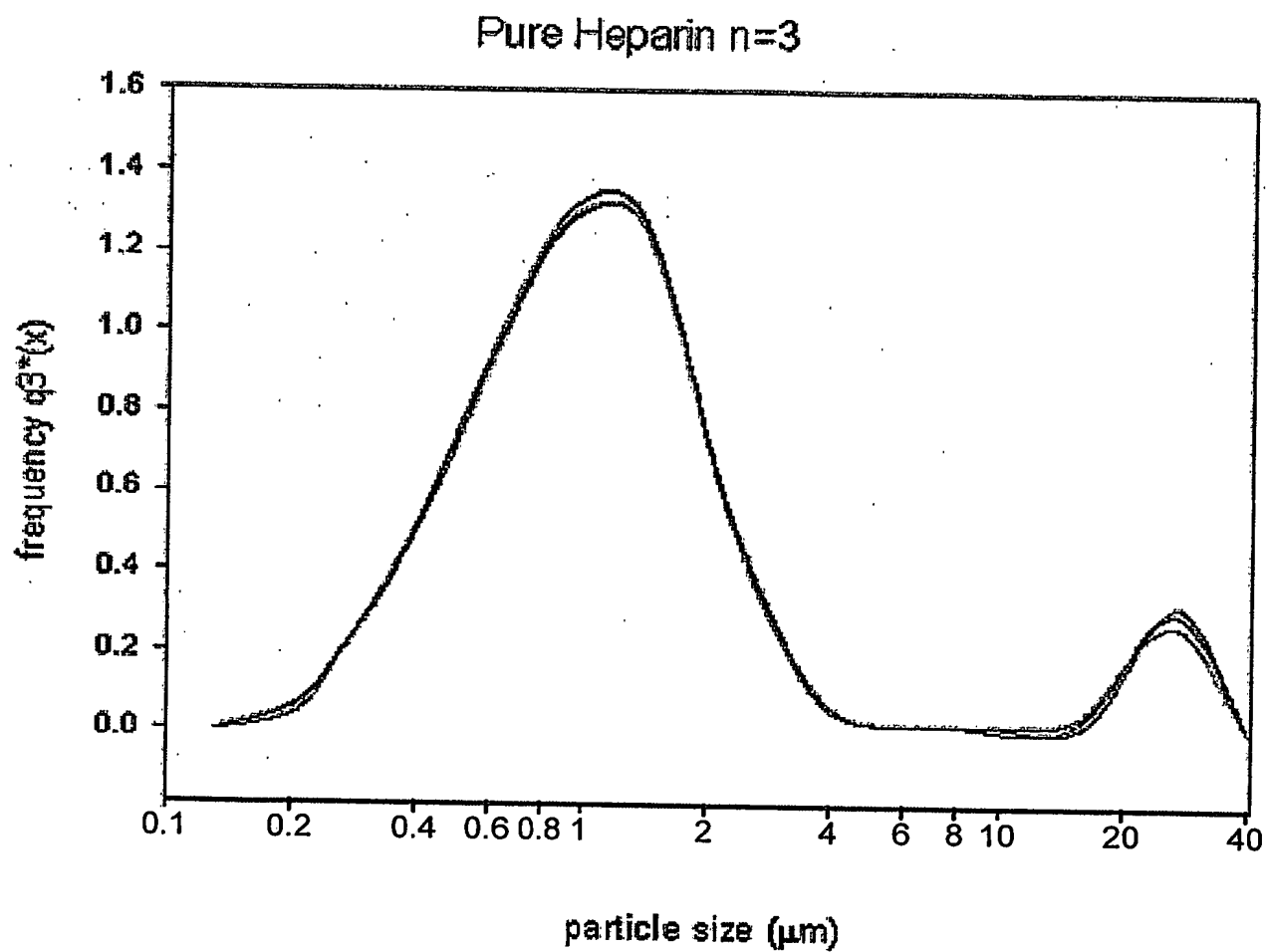


FIG. 44

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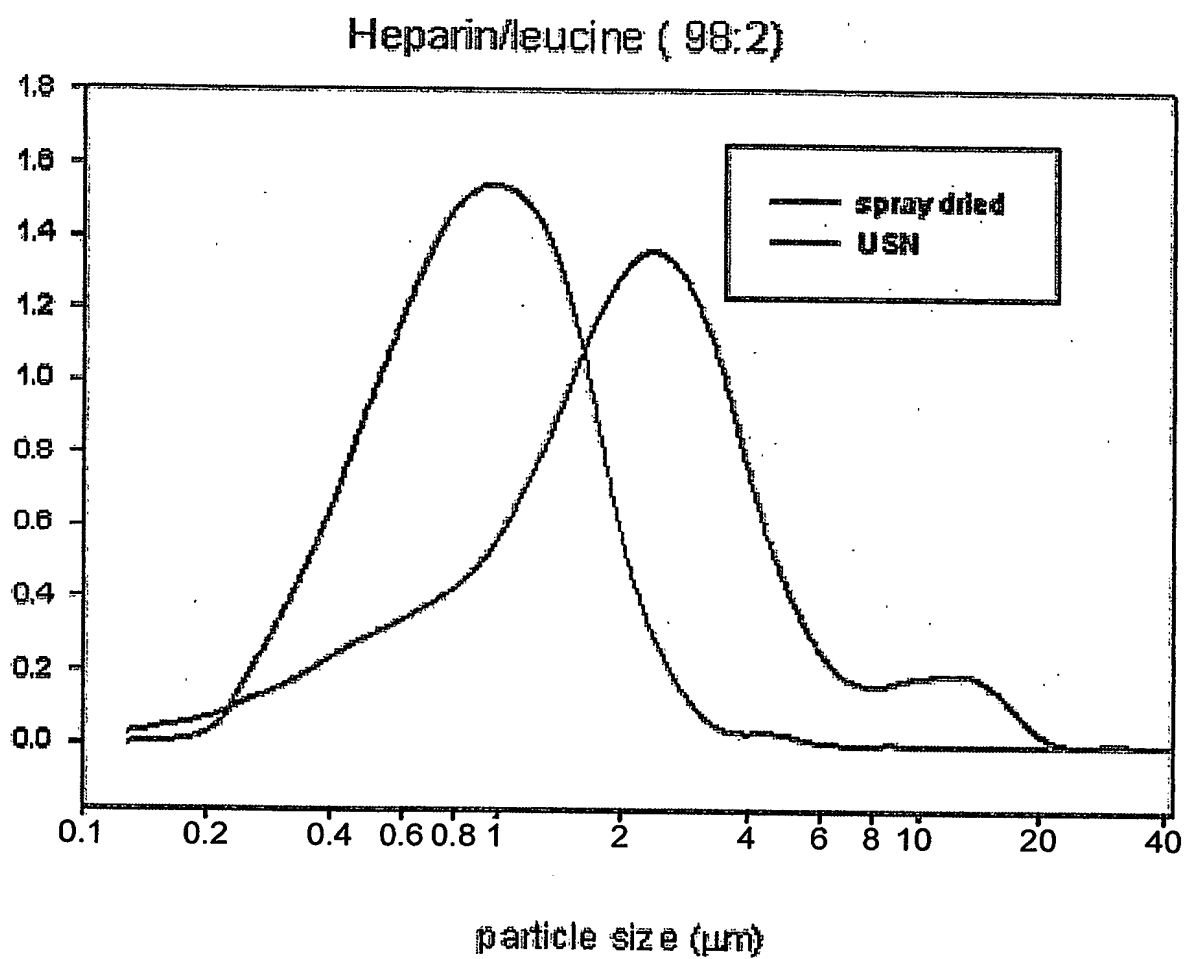


FIG. 45A

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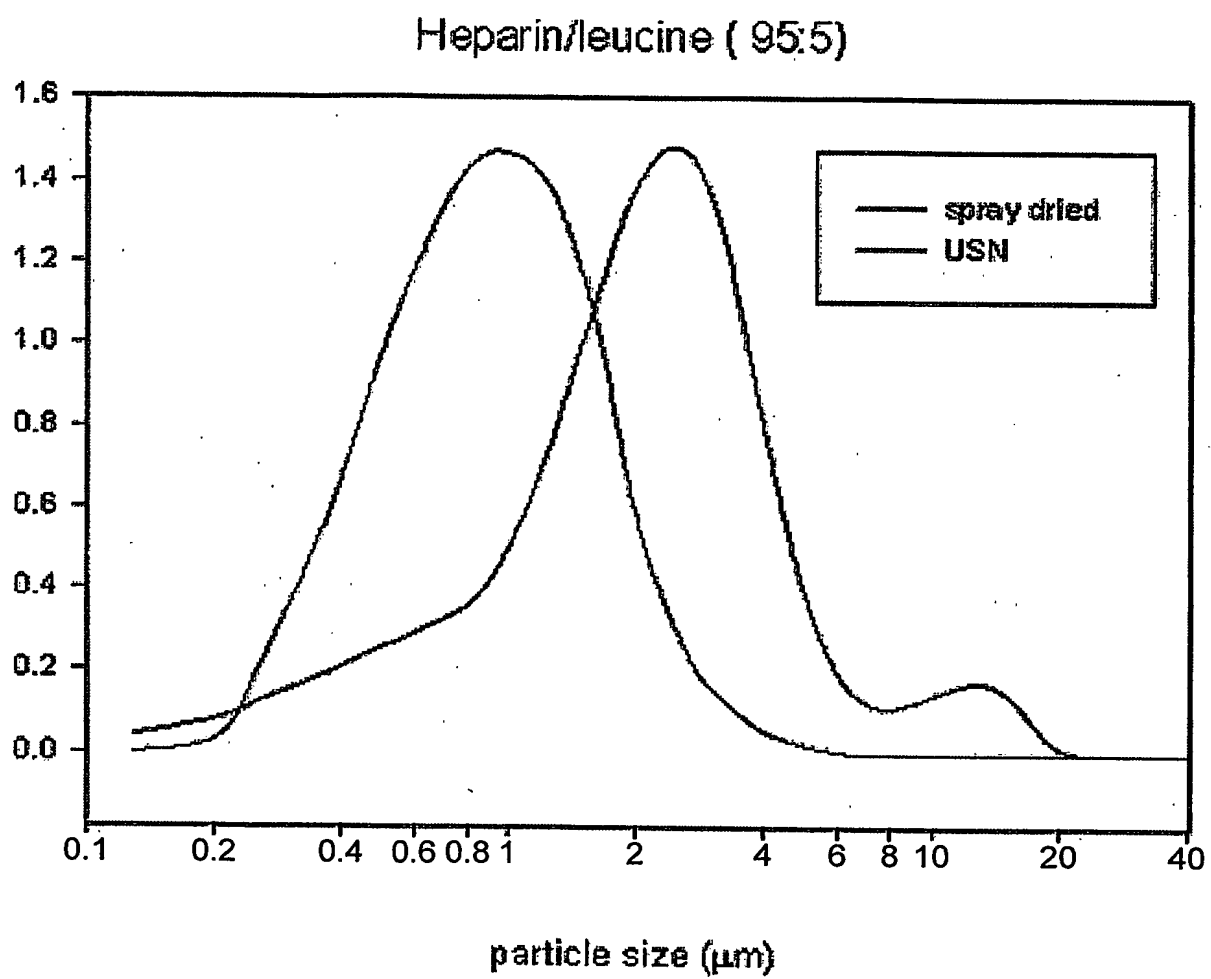
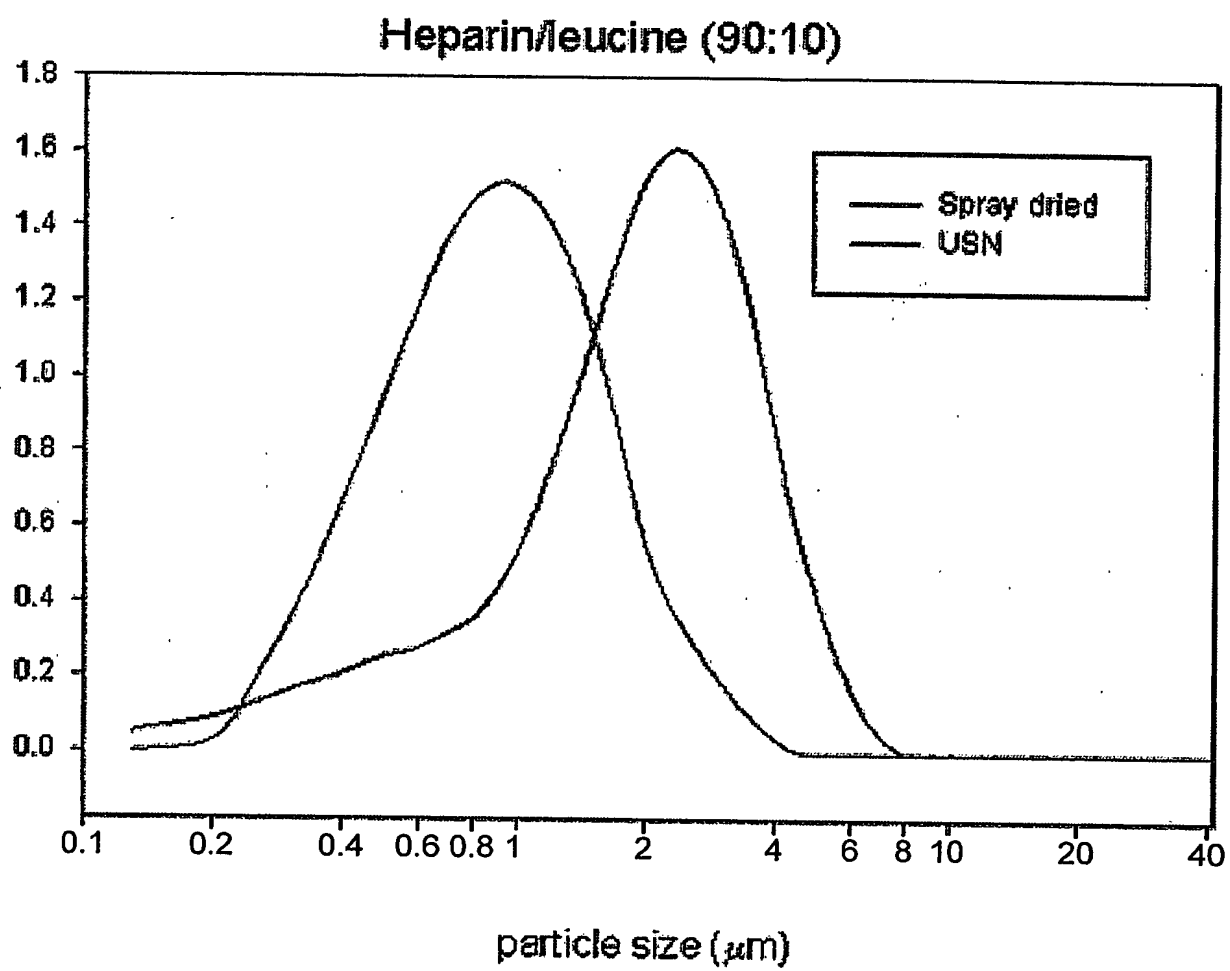


FIG. 45B

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**FIG. 45C**

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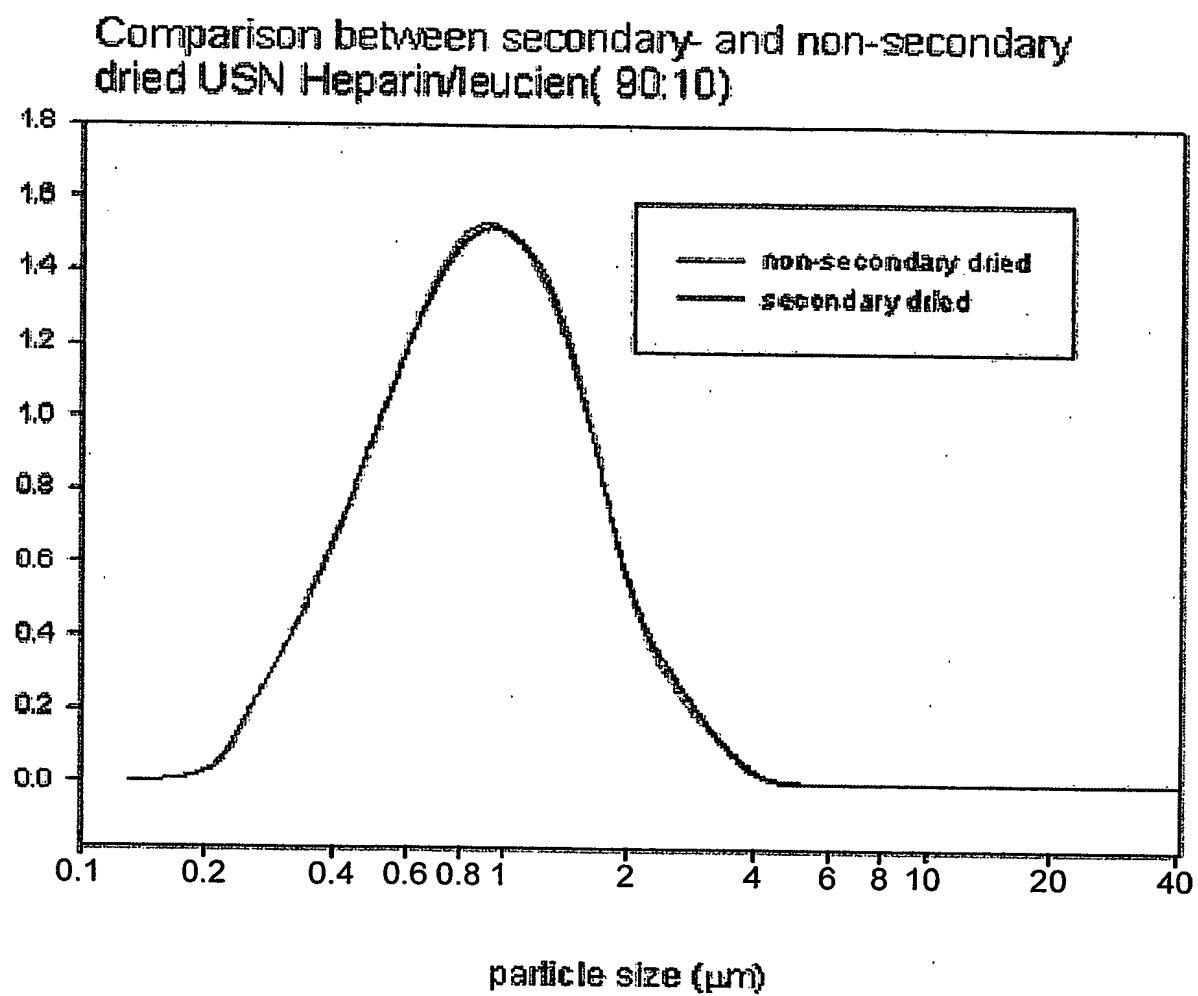


FIG. 46

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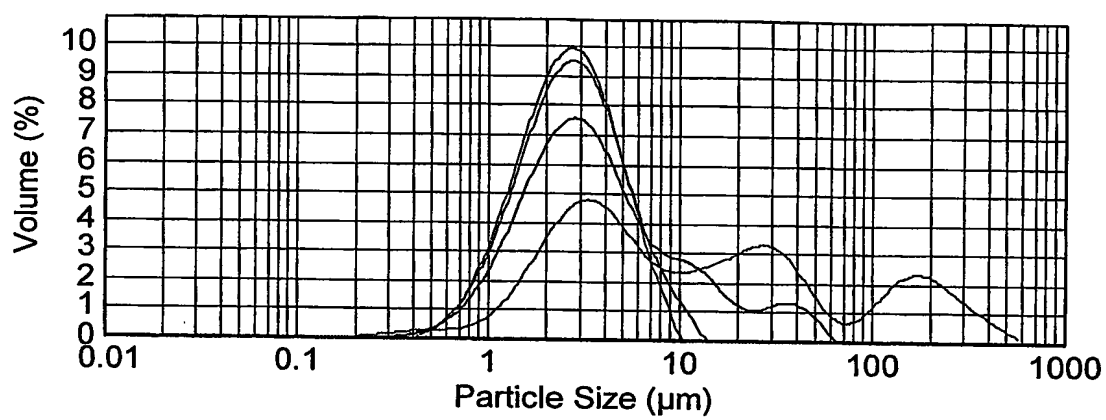


FIG. 47A

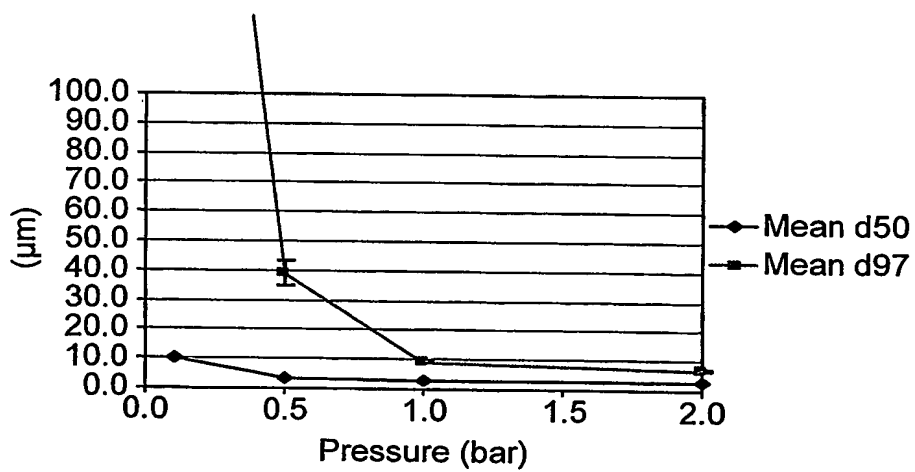


FIG. 47B

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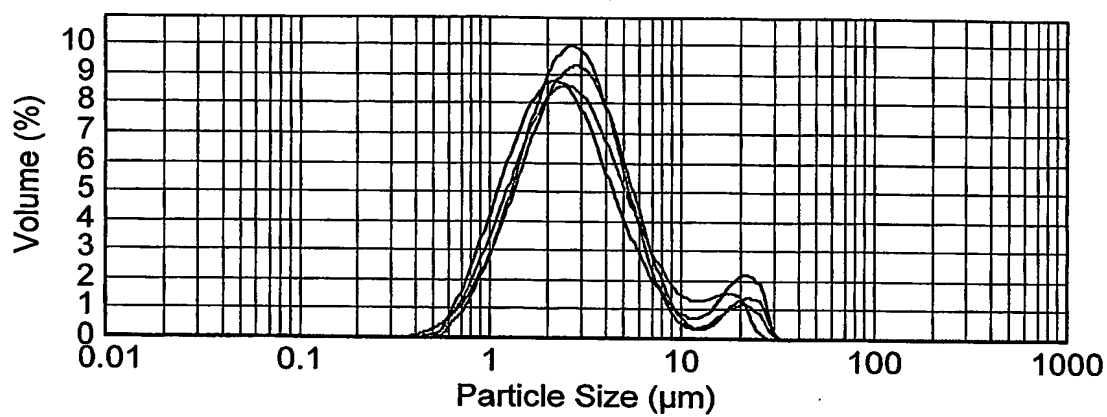


FIG. 48A

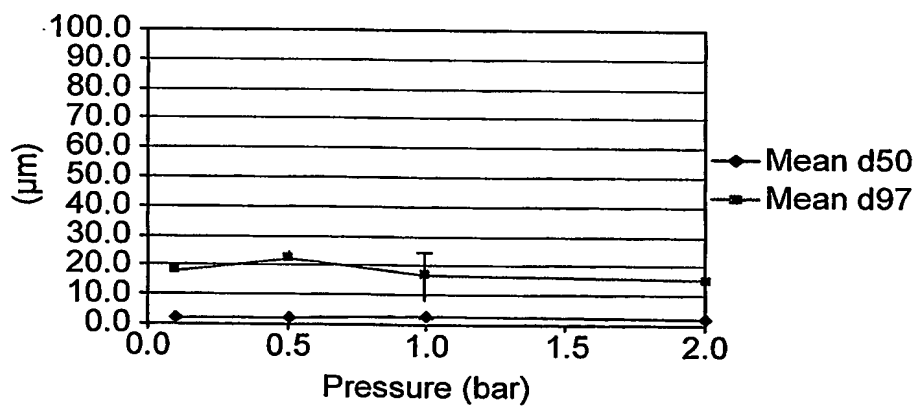


FIG. 48B

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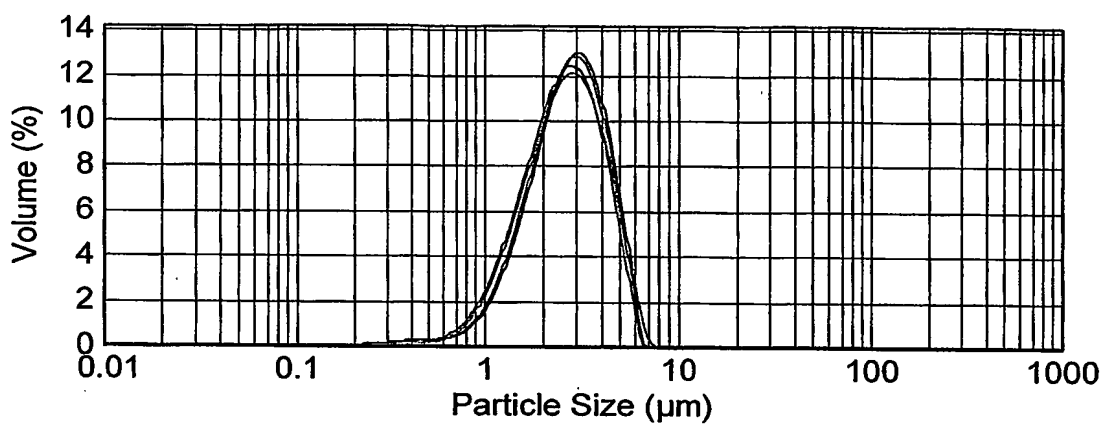


FIG. 49A

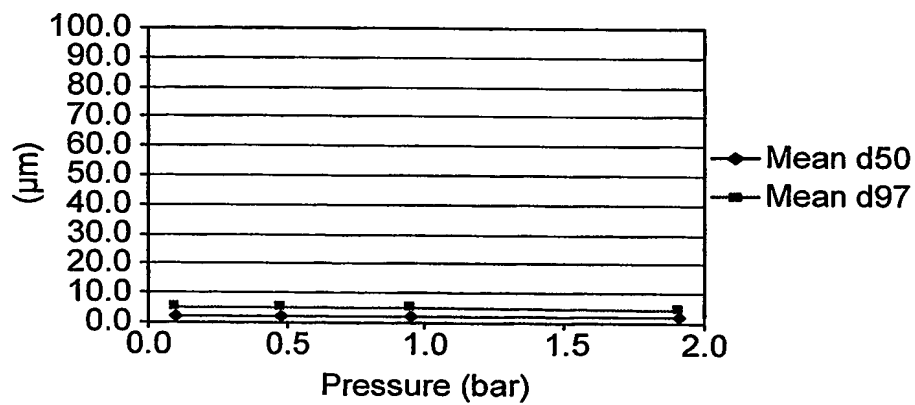


FIG. 49B

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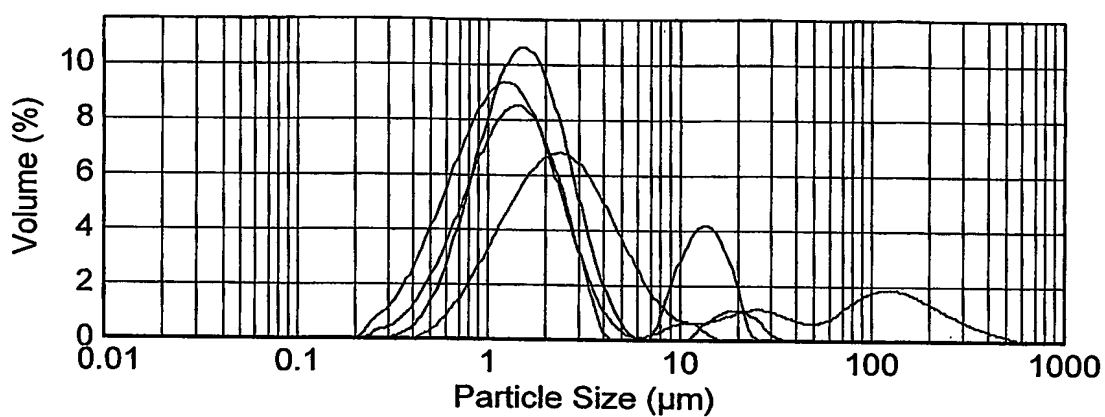


FIG. 50A

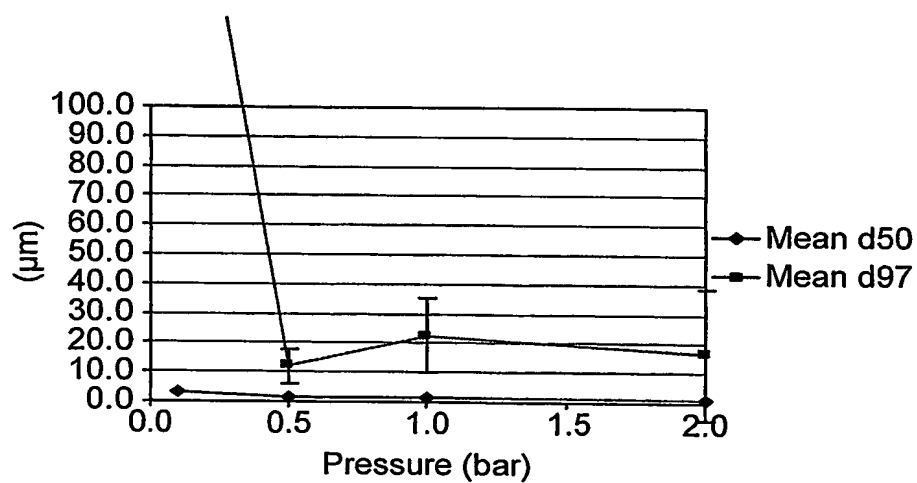


FIG. 50B

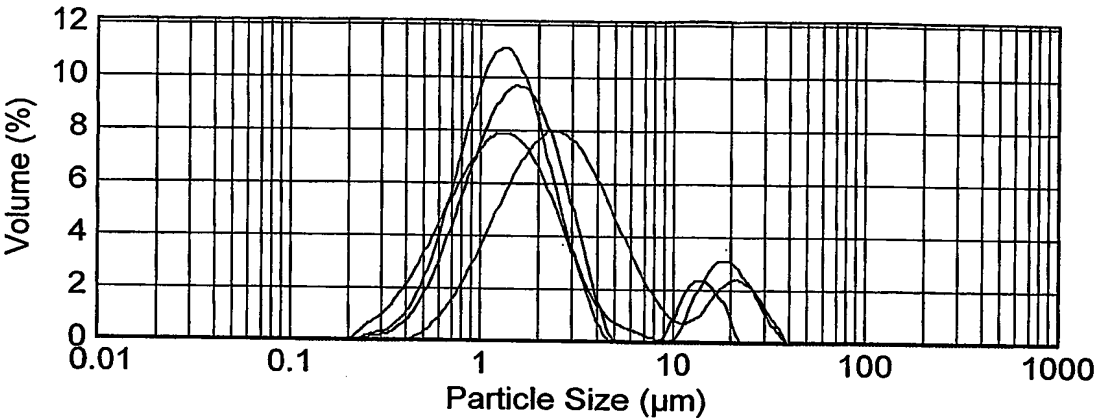


FIG. 51A

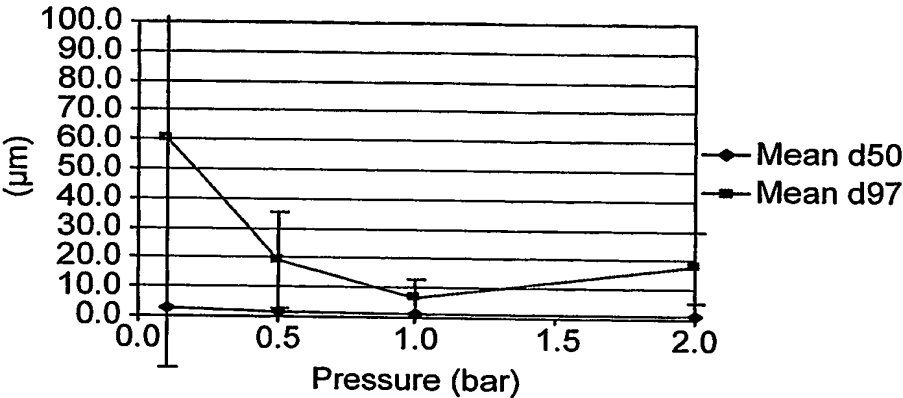


FIG. 51B

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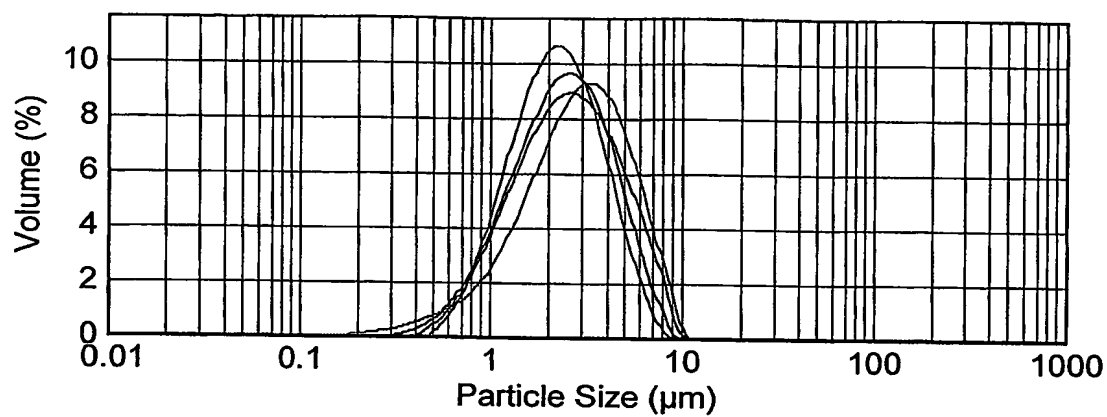


FIG. 52A

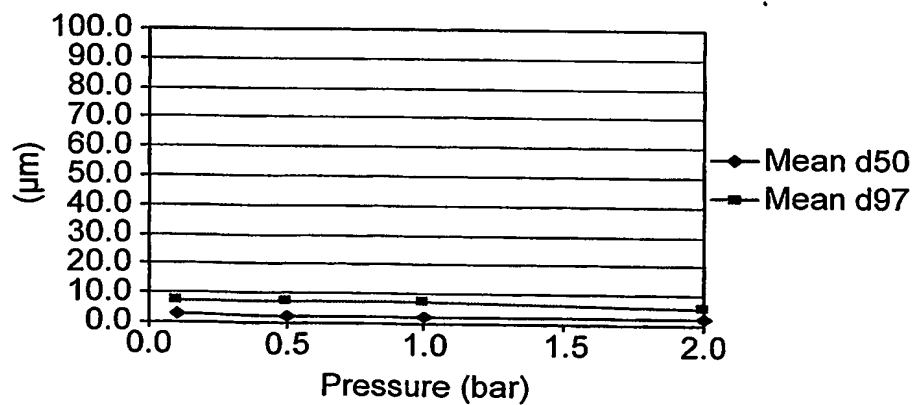


FIG. 52B

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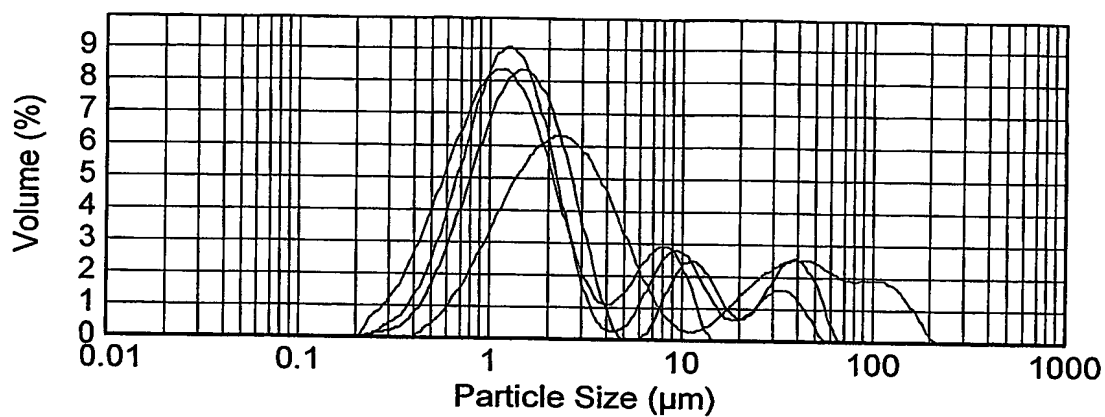


FIG. 53A

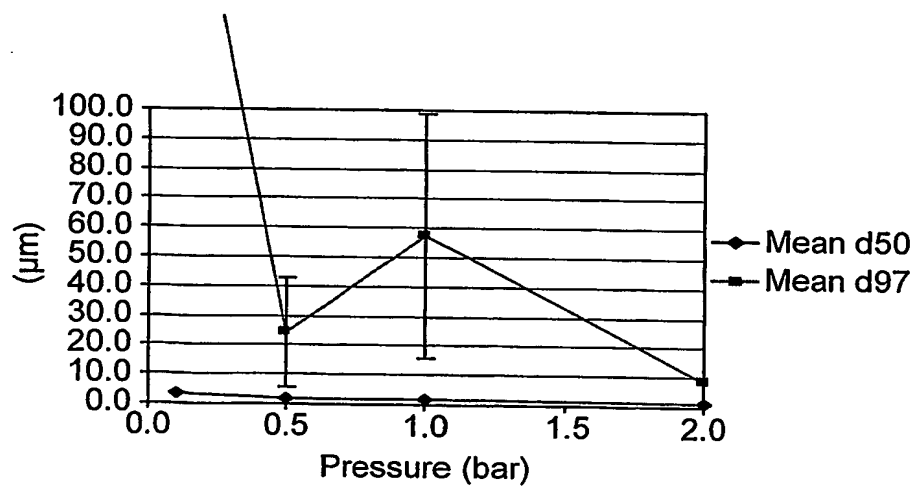


FIG. 53B

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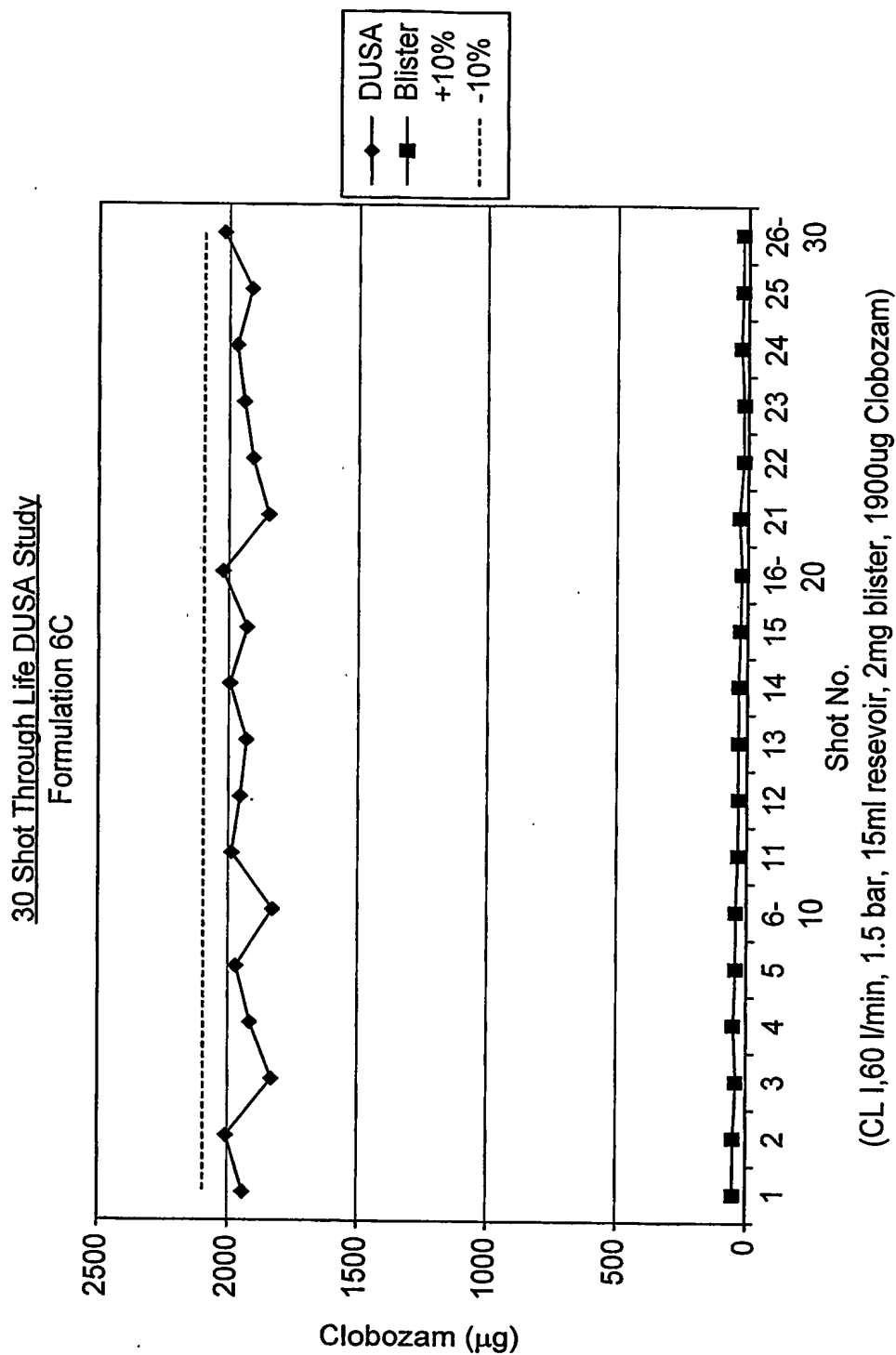


FIG. 54

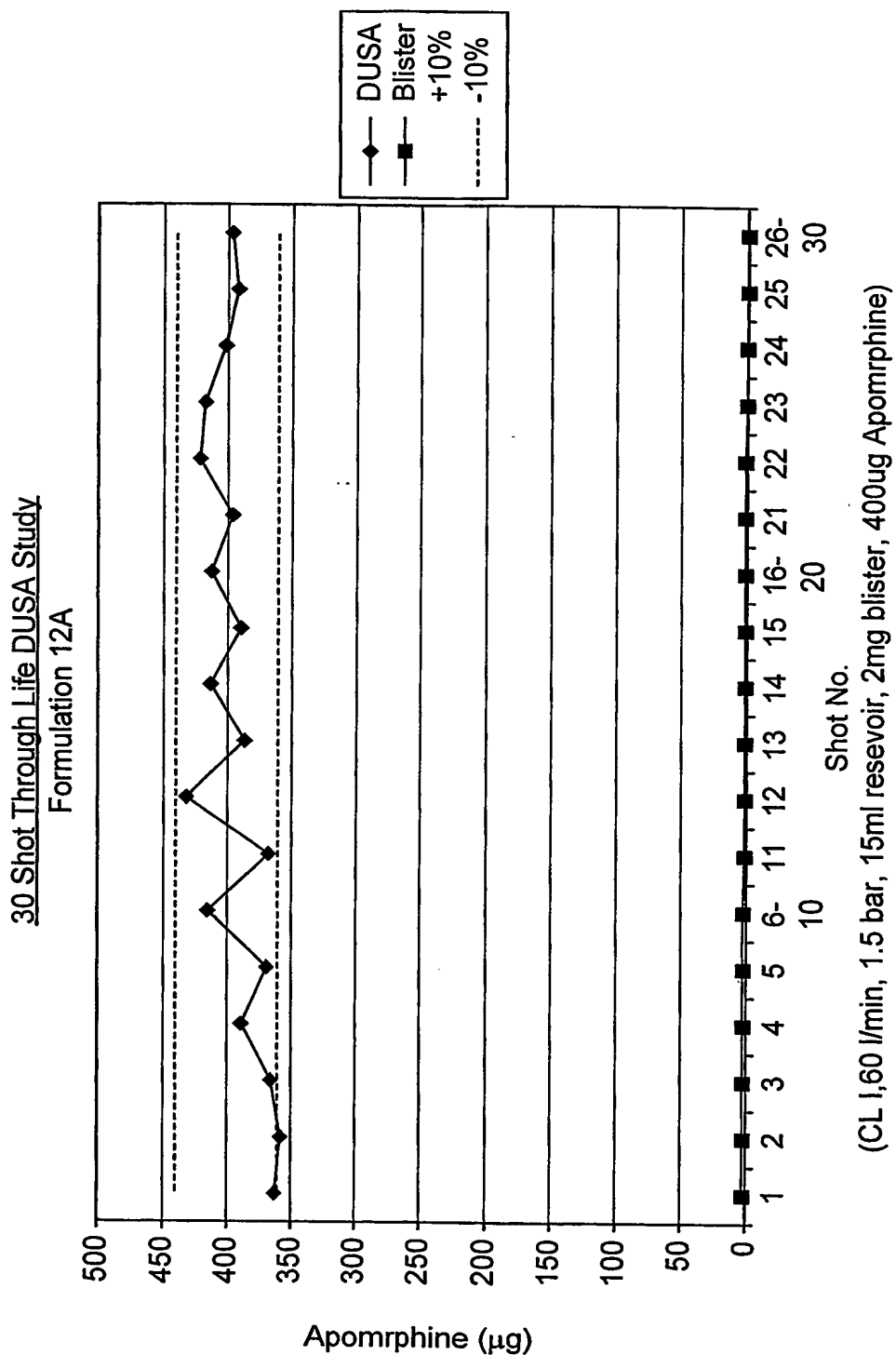
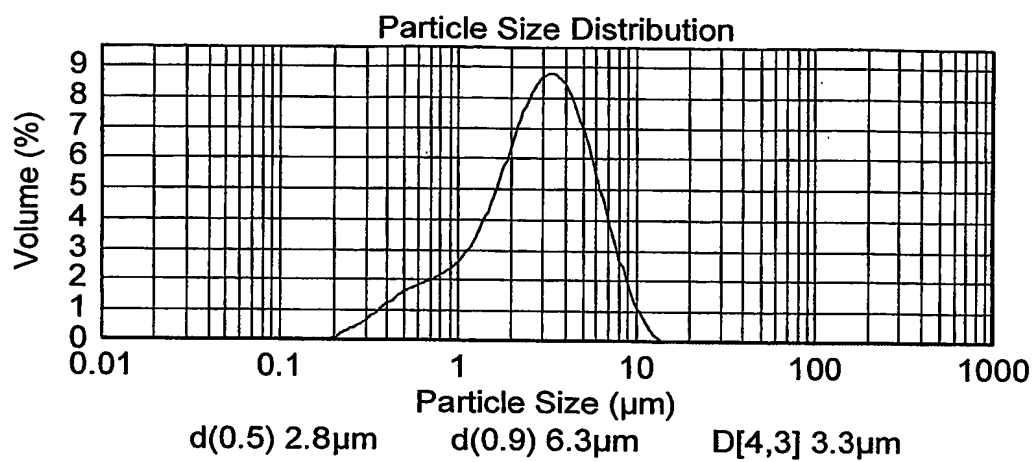
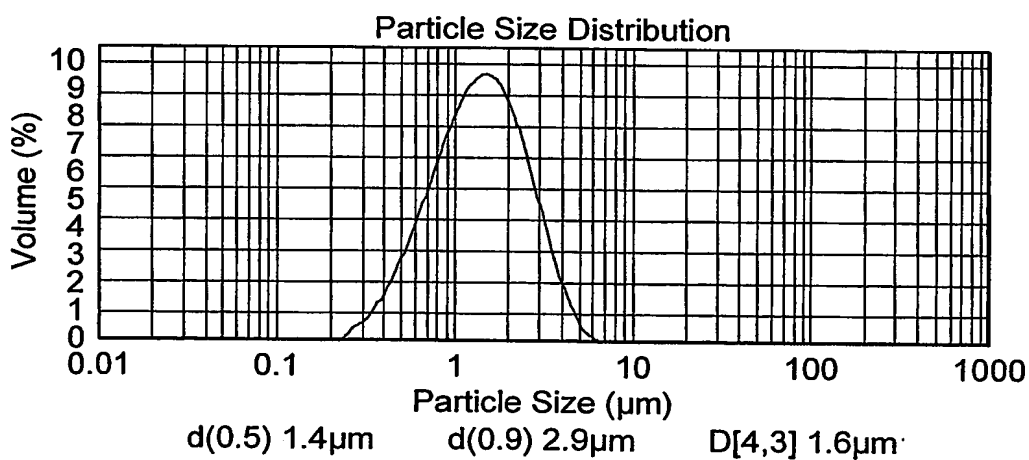
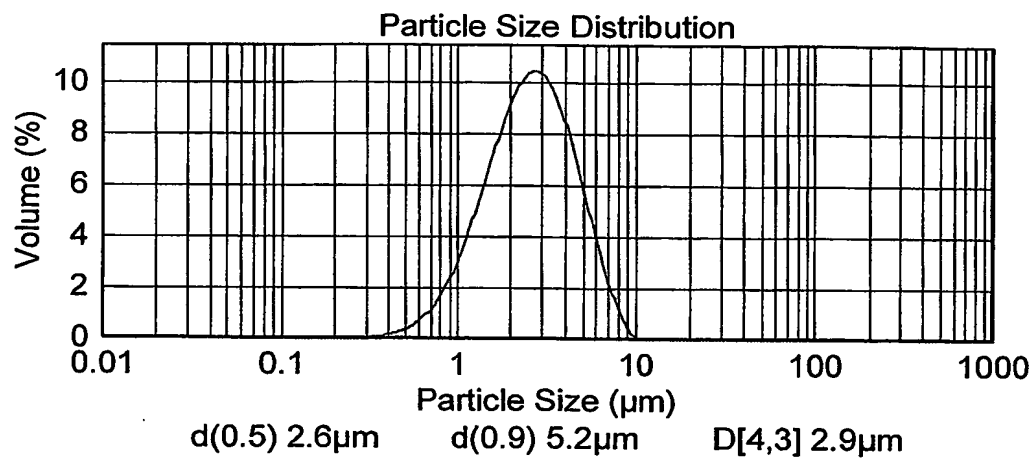
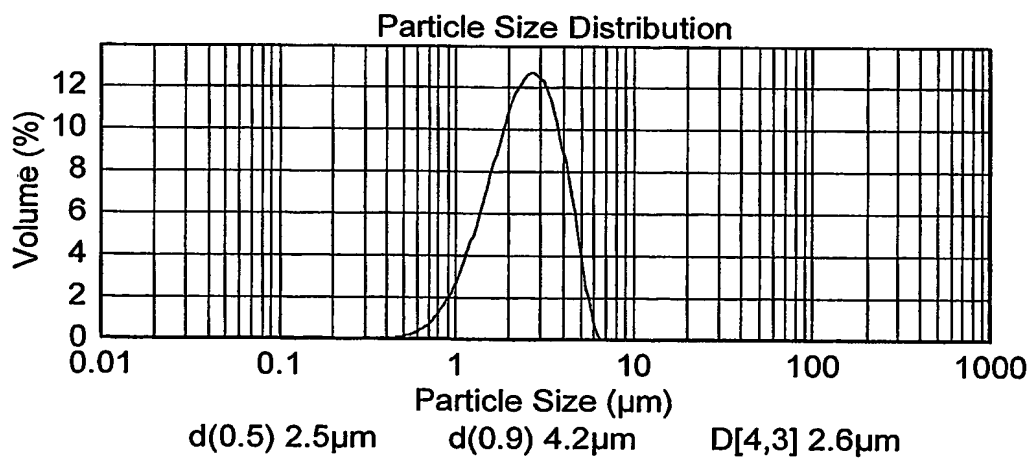


FIG. 55

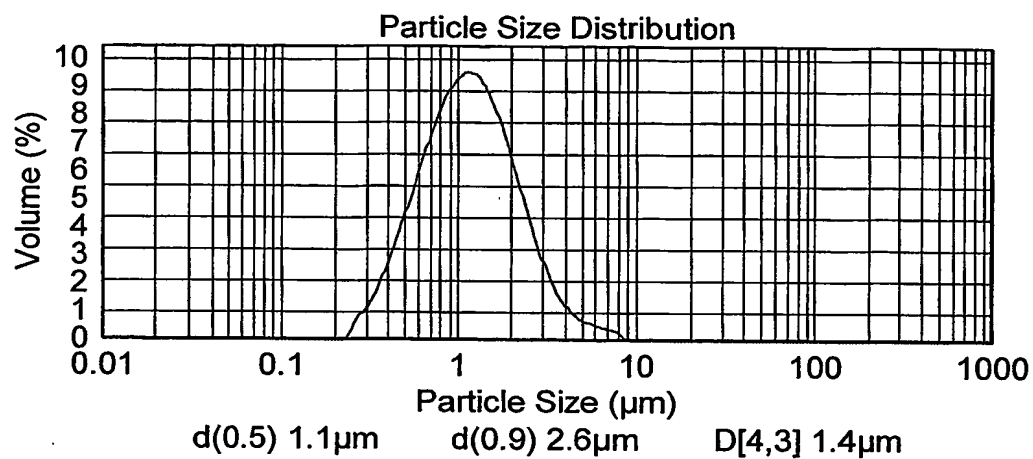
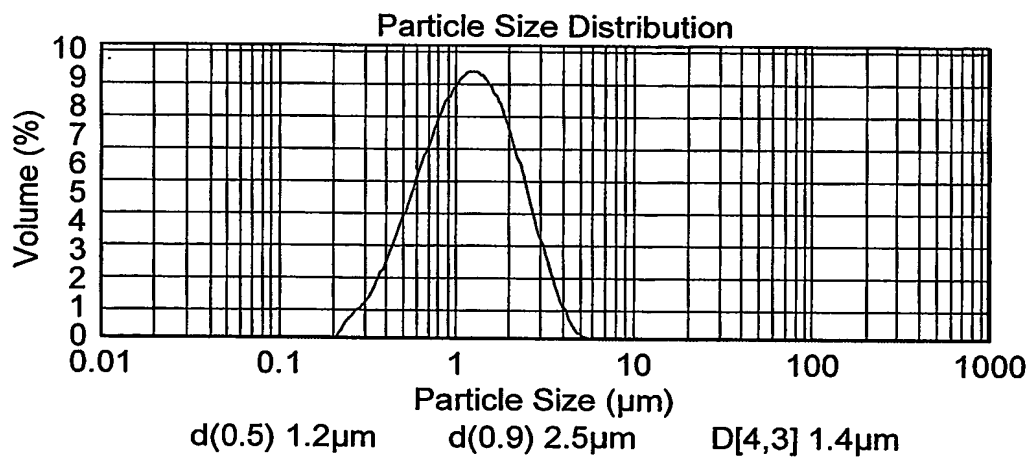
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**FIG. 56****FIG. 57**

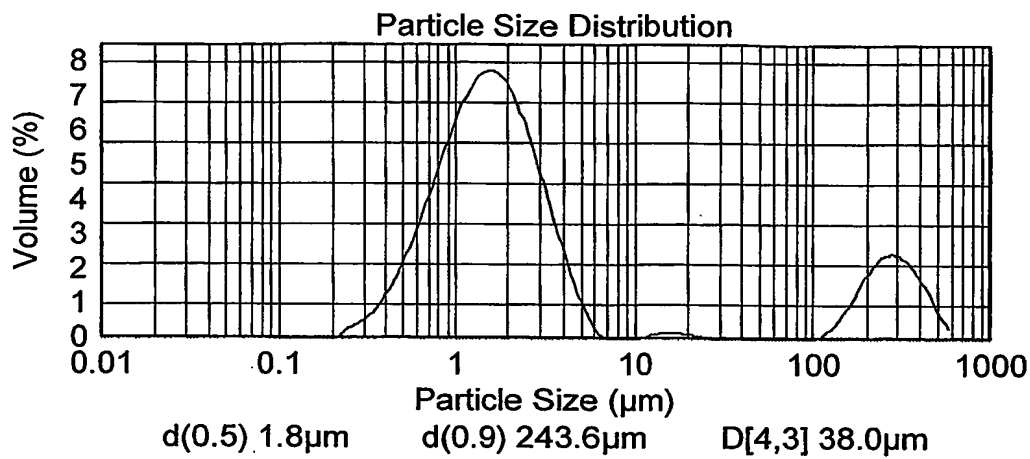
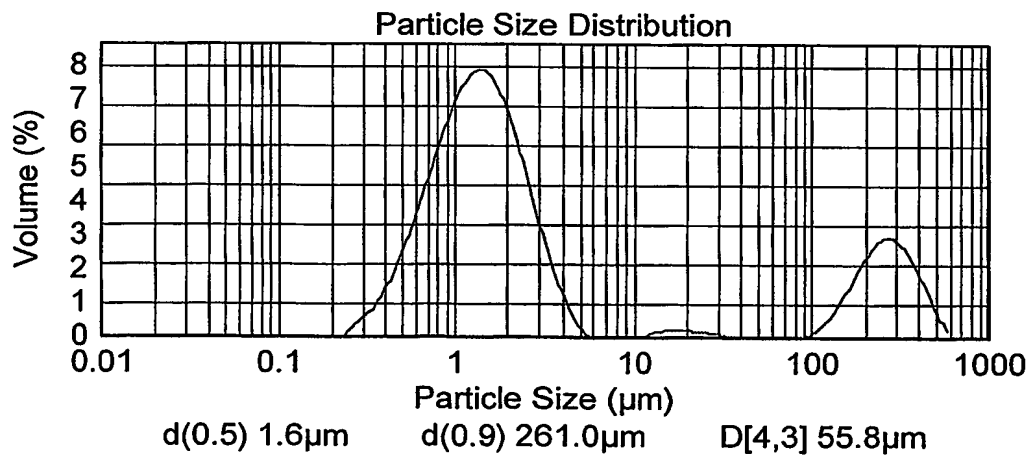
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**FIG. 58****FIG. 59**

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**FIG. 60****FIG. 61**

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**FIG. 62****FIG. 63**

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Formulation Details 5000		Uniformity of Delivered Dose 6000 (DUSA, n=10)					Fine Particle Performance (<5mm Cut-Off) 7000 MSLI (ACI)								
		Drug Retention 6010		6015 DD (µg)	6020 Metered (µg)	6025 Mass Balance (µg)	7005 n=	Drug Retention 7010		7015 DD (µg)	7020 FPD (µg)	7025 FPF (%)	7030 Metered	7035 Mass Balance (µg)	7036 Test Flow Rate (L min ⁻¹)
		Blister (µg) 6012	Device (µg) 6013					Blister (µg) 6012	Device (µg) 6013						
		7.2	4.3	84	95	93	3 (1)	7.7 (7.5)	7.5 (7.2)	85 (76)	56 (52)	66 (68)	100 (91)	95 (88)	95 (95)
100µg 45-63µm Inversina															
100µg 45-63µm Air Jet Inversina		7.3	3.6	85	95	92	3	4.4	5.7	82	55	66	92	89	95
100µg 45-63µm Grindomix				Not Done			3	6.9	8.6	78	39	50	93	94	95
100µg 50-63µm Air Jet Grindomix				Not Done			3	5.4	6.3	86	40	47	97	96	95
100µg 45-63µm Air Jet Grindomix				Not Done			3	4.2	9.4	83	52	62	97	92	95
200µg UF020100M/GA 45-63µm Air Jet Inversion		10.0	5.3	188	203	96	(2)	(7.8)	(14.5)	(175)	(122)	(70)	(197)	(94)	60

FIG. 64A

Formulation Details 5000		Uniformity of Delivered Dose 6000 (DUSA, n=10)				Fine Particle Performance (<5mm Cut-Off) 7000 MSLI (ACI)								
		Drug Retention 6010		Delivered Dose 6015		Metered Dose 6020 (µg)	Mass Balance 6025 (%)	Drug Retention 7010		Delivered Dose µg 7020	Fine Particle		Metered (µg) 7030	Mass Balance (%) 7035
		Blister (µg) 6012	Device (µg) 6013	(µg) 6016	% Nominal 6017			Blister (µg) 6012	Device (µg) 6013			FPD (µg) 7020	FPF (µg) 7505	
100µg 45-63µm Inversina		6.6	7.8	81	81	95	95	8.8	5.6	82	52	64	96	96
200µg 45-63µm t Inversina		12.1	11.5	170	85	194	93	9.8	13.3	175	118	67	198	96
200µg 45-63µm Inversina		9.2 14.5	12.7 8.6	162 169	81 85	184 192	93 96	6.5	15.2	170	105	62	192	96
200µg 45-63µm Inversina		11.0	11.2	171	85	193	95	10.7	14.1	172	117	68	196	96

Test Flow Rate = 60 L Min⁻¹

FIG. 64B

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